

# **2022-23 Student data checking tool**

**HESES22 comparison technical document**

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# Summary

1. This document describes the Higher Education Students Early Statistics survey 2022-23 (HESES22) comparison files generated by the 2022-23 Student data checking tool, and the algorithms used to generate the data needed to recreate HESES22 from the Student (22056) record submitted to the Designated Data Body (DDB).
2. Throughout the document, fields taken or derived from the 2022-23 Student (22056) record are shown in capitals.
3. The HESES22 comparison output is formed of two files. These are:
  - a. HESES22 comparison workbook 'HES22\_DCT\_XXXXXXXX.xlsx'
  - b. HESES22 comparison individualised file 'HES22\_DCT\_XXXXXXXX\_IND.csv'where XXXXXXXX is the UK Provider Reference Number (UKPRN) for the provider.
4. The data in the HESES22 data checking tool outputs are provided as a data quality tool, to aid providers in getting their data correct and to give providers an opportunity to feedback on any potential issues with new OfS algorithms and must not be used for any other purpose.
5. This document is aimed at readers with in-depth knowledge of the data. Readers are advised to refer to a copy of the Student Record – 22056 coding manual (<https://codingmanual.hesa.ac.uk/22056/home/>), 'Higher Education Students Early Statistics survey 2022-23 (HESES22)' ([www.officeforstudents.org.uk/publications/heses22/](http://www.officeforstudents.org.uk/publications/heses22/)) and the latest individualised files for the HESES21 comparison and the HESES20 comparison when using this document.
6. We will document any changes or corrections to the algorithms in this document on the OfS website (<https://www.officeforstudents.org.uk/data-and-analysis/data-checking-tool/2022-23-student-data-checking-tool/> under 'Updates').

## Changes

7. This is the first publication of these algorithms based on the Student (22056) record. Any changes after initial publication will be listed here.

## Note on terminology

8. The algorithms below apply to the Student (22056) fields.
9. This document refers to 'engagement', whilst the HESES22 guidance refers to 'instance'. For the purposes of this document only, these terms are synonymous.

## Overrides

10. Occasionally primary derived field(s) need to be overridden for some records. This occurs in circumstances where we cannot correctly categorise those records using an algorithm. Some providers may require overrides in their HESES22 comparison as generated by the 2022-23

Student data checking tool, using Student (22056) data. Overrides will not be used in the initial release of the HESES22 comparison, but will be used in later updates of the HESES22 comparison.

## HESES22 comparison workbook

11. The HESES22 comparison workbook is the Excel workbook HES22\_DCT\_XXXXXXXX.xlsx which contains the worksheets shown in Table 1. This workbook will be updated in due course to include funding modelled using 2022-23 Student (22056) data.

**Table 1: Worksheets in the HESES22 comparison workbook**

Worksheet*	Title
Cover_sheet	Office for Students: 2022-23 Student data checking tool: HESES22 comparison
Table_of_contents	Table of contents
Key_differences	Key differences between HESES22 and recreated HESES22
Rebuild_summary	Comparison of splits of years of instance and FTE
1_Full_time	HESES22 recreated using 2022-23 Student data Table 1: Full-time counts of years of instance
2_Sandwich	HESES22 recreated using 2022-23 Student data Table 2: Sandwich year out counts of years of instance
3_Part_time	HESES22 recreated using 2022-23 Student data Table 3: Part-time counts of years of instance and full-time equivalence (FTE)
4_Year_abroad	HESES22 recreated using 2022-23 Student data Table 4: Home fee undergraduate years abroad
5_Planning	HESES22 recreated using 2022-23 Student data Table 5: Further student analysis for planning purposes
6a_Health_full_time	HESES22 recreated using 2022-23 Student data Table 6a: Full-time counts of years of instance for home fee students on pre-registration health courses
6c_Health_part_time	HESES22 recreated using 2022-23 Student data Table 6c: Part-time counts of years of instance and FTE for home fee students on pre-registration health courses
7_Degree_apprenticeships	HESES22 recreated using 2022-23 Student data Table 7: Home fee years of instance and full-time equivalence (FTE) on degree apprenticeships
h1_Full_time	HESES22 Table 1: Full-time counts of years of instance

Worksheet*	Title
h2_Sandwich	HESES22 Table 2: Sandwich year out counts of years of instance
h3_Part_time	HESES22 Table 3: Part-time counts of years of instance and FTE
h4_Year_abroad	HESES22 Table 4: Home fee undergraduate years abroad
h5_Planning	HESES22 Table 5: Further student analysis for planning purposes
h6a_Health_full_time	HESES22 Table 6a: Full-time counts of years of instance for home fee students on pre-registration health courses
h6c_Health_part_time	HESES22 Table 6c: Part-time counts of years of instance and FTE for home fee students on pre-registration health courses
h7_Degree_apprenticeships	HESES22 Table 7: Home fee years of instance and full-time equivalence (FTE) on degree apprenticeships
1_Full_time_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 1: Full-time counts of years of instance
2_Sandwich_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 2: Sandwich year out counts of years of instance
3_Part_time_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 3: Part-time counts of years of instance and FTE
4_Year_abroad_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 4: Home fee undergraduate years abroad
5_Planning_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 5: Further student analysis for planning purposes
6a_Health_full_time_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 6a: Full-time counts of years of instance for home fee students on pre-registration health courses
6c_Health_part_time_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 6c: Part-time counts of years of instance and FTE for home fee students on pre-registration health courses
7_Degree_apprenticeships_diff	Difference between HESES22 recreated using 2022-23 Student data and HESES22 Table 7: Home fee years of instance and full-time equivalence (FTE) on degree apprenticeships

\* Shading corresponds to the colour of the workbook tab.

12. The difference sheets (see worksheets ending in 'diff' in Table 1) will indicate where differences between the HESES22 recreation tables and the HESES22 tables exceed a given threshold. The size of this threshold can be altered by entering the required value where indicated on the worksheets. These sheets are to assist providers in reconciling differences between HESES22 data and HESES22 recreation data.
13. Providers are strongly encouraged to use the 'Rebuild information' worksheet in the HES22\_DCT\_XXXXXXX.xlsx workbook, which may highlight data quality issues relating to the 2022-23 Student (22056) fields used in the HESES22 recreation algorithms.

## **HESES22 comparison individualised file**

14. When working through this document it is necessary to use the individualised file HES22\_DCT\_XXXXXXX\_IND.csv. These files contain the values of all fields used to generate the HESES22 comparison.
15. Fields taken from the 2022-23 Student (22056) record or derived as part of the HESES22 comparison are shown in capitals using the names given in Tables 2 and 3 respectively.
16. Specific instructions for rebuilding the HESES22 comparison workbook from the individualised file are provided in the HESES22 comparison rebuild document.
17. The individualised file contains one record per student course session (SCS) for each unique combination of UKPRN, SID, NUMHUS.

## **Student course session ranking**

18. The SCS derived field HESSCSEXCL determines whether or not a SCS is included in the HESES22 population. SCSs are ranked by whether or not they are in the HESES22 population, then by descending SCSSTARTDATE. Thus, a SCS which is included in the population is always ranked higher than an excluded SCS, even if the excluded SCS has a later SCSSTARTDATE.
19. Where a student has SCSs in two years of engagement in the reporting period, the ranking process will be carried out separately for HESYOENUM = 1 and HEYOENUM = 2.
20. The data associated with the first ranked SCS is used to define the year of engagement in the HESES22 population. Data for all SCSs is shown in the individualised file.

## Student (22056) fields used to create the HESES22 comparison output

21. The Student (22056) fields used to generate the HESES22 comparison are listed in Table 2.

**Table 2: List of Student (22056) fields used in the HESES22 comparison**

Entity	Name	Description	Column in Individualised file
Course	PREREQUISITE	Level of the course for funding purposes.	CW
Course	TTCID	Indicates whether the course is a teacher training course and identifies the type of teacher training.	DX
Course initiative	COURSEINITID	Identifies the specific scheme associated with the course.	See Table 3
Curriculum accreditation	CURACCID	The specific accreditation type applicable to the course.	See Table 3
Derived field	Z_EXPECTOEND	The initial expected end date of an engagement.	BV
Derived field	Z_OVADAYSCS	Length in days of a single off venue activity during a student course session.	See Table 3
Derived field	Z_STULOAD_CYC	Total student load for the engagement across the cycle.	BQ
Engagement	ENGEXPECTEDENDDATE	Expected end date for the engagement.	BH
Engagement	ENGSTARTDATE	Start date for the engagement.	BI
Engagement	FEEELIG	Distinguishes between those students who are eligible to pay home fees and those who are not.	BJ
Engagement	INCOMINGEXCHANGE	Identifies if the student is an incoming exchange or visiting student.	BK
Engagement	NUMHUS <sup>†</sup>	Identifier for the engagement.	D
Engagement	OWNENGID <sup>†</sup>	Provider's own engagement identifier.	E
Engagement	QTS	Indicates whether a student has qualified teacher status.	BN
Engagement	UKPRN <sup>†</sup>	UK Provider Reference Number	A
Entry profile	PERMADDCOUNTRY	Country of the student's permanent home address on entry to their engagement.	BM

Entity	Name	Description	Column in Individualised file
Funding and monitoring	FUNDLENGTH	Length of the student course session for funding purposes.	CM
Funding and monitoring	NONREGFEE	Students who are not subject to regulated fees.	CQ
Funding body	FUNDINGBODY	The body that is responsible for allocating funding for a fundable student course session.	See Table 3
Leaver	ENGENDDATE	End date of the engagement.	BG
Leaver	RSNENGEND	Reason the engagement has ended.	BO
Off venue activity	ACTTYPEID	The type of off-venue activity.	See Table 3
Off venue activity	MOBScheme	Scheme associated with the off venue activity.	See Table 3
Off venue activity	OVAID	The unique identifier for the off venue activity.	See Table 3
Placement	PLACEMENT	Records where the student course session contains a placement.	CU
Qualification	QUALCAT	Qualification category.	DA
Qualification	QUALID	Unique identifier for the qualification.	DB
Qualification subject	QUALPROPORTION1-5	Proportion allocated to each subject contributing to a qualification.	DC, DD, DE, DF and DG
Qualification subject	QUALSUBJECT1-5	The subject(s) of the qualification.	DH, DI, DJ, DK and DL
Reference period student load	RPSTULOAD	Full-time equivalence that is applicable to the relevant reference period.	DM
Session status	STATUSCHANGEDTO	Status the student has moved to.	See Table 3
Student	NATION	Legal nationality of the student	BL
Student	OWNSTU <sup>†</sup>	Provider's own internal identifier for the student.	C
Student	SID <sup>†</sup>	Unique identifier for the student.	B
Student accreditation aim	STUACCID	The accreditation for teacher training accreditations or where the student has specialised part way through their course.	See Table 3
Student course session	COURSEID <sup>†</sup>	Unique identifier for a course associated with the student course session.	H



Entity	Name	Description	Column in Individualised file
Student course session	PREPFLAG	Student course session represents a preparatory phase of the students studies.	CV
Student course session	SCSENDDATE	End date of the student course session.	DN
Student course session	SCSESSIONID	Unique identifier for the student course session.	G
Student course session	SCSMODE	Mode of study of the student during the student course session.	DO
Student course session	SCSSTARTDATE	Start date of the student course session.	DP
Student course session	STUDYABROAD	Student is studying abroad as part of the student course session.	DT
Student course session	YEARPRG	Year of programme that applies to the student course session.	DY
Student initiative	STUINITID	Specific scheme associated with the engagement.	See Table 3
Study location	DISTANCE	Records if the student is distance learning and whether they are inside or outside the UK.	See Table 3
Study location	PRINONUK	Students who will spend the majority of their engagement outside the UK.	See Table 3
Study location	STUDYLOCID	Unique identifier for the study location entity.	See Table 3

† These fields are not used in the comparison but are included in the individualised file to allow easy identification of students.

## Description of derived fields

22. The derived fields used to generate the HESES22 comparison are listed in Table 3.

**Table 3: List of derived fields used in the HESES22 comparison**

Name	Description	Paragraph	Column in Individualised file
ACTTYPEID1-3	Activity type identifiers.	29	BX, BY and BZ
COURSEINITID1-3	Course scheme initiative identifiers.	24	CA, CB and CC
CURACCID1-3	Course accreditation identifiers.	25	CD, CE and CF
DISTANCE1-3	Distance learning identifiers.	31	CG, CH and CI
FUNDINGBODY1-3	Funding body identifiers.	28	CJ, CK and CL
HESACCREDARCTWO	Architects Registration Board (ARB) at Part 2 level identifier.	53	EC
HESACCREDSOCIAL	Social work course identifier.	89	ED
HESANNIV	Anniversary of start date.	43	EE
HESAPPCOURSEAIMPYR	Previous year's course aim	117	EF
HESAPPPOP	Indicates whether the year of engagement is included in Table 7.	119	J
HESAPPRENTICE	Higher or Degree Apprenticeship identifier.	118	EG
HESAPPSTARTER	Table 7 starters in current academic year.	120	K
HESAVRGFTE	Average FTE.	79	EH
HESAVRGFTEPOP	Average FTE population.	74	EI
HESAVRGFTETYPE	Average FTE type.	76	EJ
HESBROADLEVEL	Broad level of study.	103	EK
HESCLIN	Price group A clinical and veterinary students.	88	EL
HESCOL3	Contribution of year of engagement to Column 3 of Tables 1 to 3 and 7.	127	L
HESCOL3_PROFZ	Contribution of activity in nursing, midwifery and allied health professions to Column 3 of Tables 1 to 3 and 7.	125	S and T

Name	Description	Paragraph	Column in Individualised file
HESCOL3_Y	Contribution of activity in price group to Column 3 of Tables 1 to 3 and 7.	126	M, N, O, P, Q and R
HESCOL4	Contribution of year of engagement to Column 4 of Tables 1 to 3 and 7.	130	U
HESCOL4_PROFZ	Contribution of activity in nursing, midwifery and allied health professions to Column 4 of Tables 1 to 3 and 7.	128	AB and AC
HESCOL4_Y	Contribution of activity in price group to Column 4 of Tables 1 to 3 and 7.	129	V, W, X, Y, Z and AA
HESCOL4A	Estimated contribution of FTE for each year of engagement	132	AD
HESCRSELGTH	Expected length of the course in years.	46	EM
HESDISTANCE	Distance learning indicator.	41	EN
HESEC	Indicates where a student has a UK, other Home and EU or other domicile.	60	EO
HESENGEXCL	Reason(s) for exclusion of engagement.	96	EP
HESENGEXCL1, HESENGEXCL2, HESENGEXCL4, HESENGEXCL8	Engagement period exclusions.	92, 93, 94, 95	EQ, ER, ES and ET
HESENGSTARTDATE	Engagement start date.	42	EU
HESESFTE	FTE for the year of engagement.	84	EV
HESEXCL	Reason(s) for the exclusion from the HESES population.	98	AE
HESFTE_CASE	Method used to calculate HESESFTE.	72	EW
HESFTEA, HESFTEB, HESFTEC11, HESFTEC12, HESFTEC2, HESFTED	FTE of the year of engagement assigned to each price group.	131	AF, AG, AH, AI, AJ and AK

Name	Description	Paragraph	Column in Individualised file
HESHEALTHPOP	Identifies whether the student will be included in pre-registration nursing, midwifery and allied health profession courses.	115	AL
HESHEALTHPROF1, HESHEALTHPROF2	Identifies which pre-registration nursing, midwifery and allied health profession the student is recorded against.	54, 57	AM and AN
HESHEALTHPROP1, HESHEALTHPROP2	The proportion of the student's activity that is allocated to each pre-registration nursing, midwifery and allied health profession.	112, 113	AO and AP
HESHEALTHYEAR	Indicates whether the student started their course in 2022-23 or another academic year.	114	AQ
HESLENGTH	Long or standard year of engagement.	62	AR
HESLEVEL	Level of study.	59	AS
HESLINKPYR	Link made to 2021-22 data.	44	EX
HESMDV	Medicine, dentistry or veterinary science student.	85	EY
HESMODE	Mode of study.	51	AT
HESNCOMPLEVEL_PROFZ	Level at which HESNCOMPRATE_PROFZ is calculated for the year of engagement	123	FF and FG
HESNCOMPLEVEL_Y	Level at which HESNCOMPRATE_Y is calculated for the year of engagement.	121	EZ, FA, FB, FC, FD and FE
HESNCOMPRATE_PROFZ	Estimate of likelihood that the activity in each health profession was not completed.	124	FN and FO
HESNCOMPRATE_Y	Estimate of likelihood that the activity in price group was not completed.	122	FH, FI, FJ, FK, FL and FM
HESNEWENTRANT	Identifies whether a student is a new entrant.	110	AU

Name	Description	Paragraph	Column in Individualised file
HESNOTACTIVE	Indicates if the student is dormant, intercalating or writing up for the entirety of this SCS.	47	FP
HESPGLOANELIGIBILITY	Indicates postgraduate loan eligibility.	52	FQ
HESPGRPYR	Number of postgraduate research (PGR) years of instance in 2021-22.	109	FR
HESPGRPYR2	Number of PGR years of instance 2020-21.	108	FS
HESPGTPYR	Number of postgraduate taught (PGT) years of instance in 2021-22.	107	FT
HESPGTPYR2	Number of PGT years of instance in 2020-21.	106	FU
HESPRGA, HESPRGB, HESPRGC11, HESPRGC12, HESPRGC2, HESPRGD	Proportion of activity in each price group.	90	AV, AW, AX, AY, AZ and BA
HESREG	HESES Column 1 or 2 indicator.	50	BB
HESRESSTAT	Fundability and residential status.	102	BC
HESSCSEXCL	Reason(s) for SCS exclusion.	70	FV
HESSCSEXCL1, HESSCSEXCL2, HESSCSEXCL4, HESSCSEXCL8, HESSCSEXCL16, HESSCSEXCL32	SCS exclusions.	64, 65, 66, 67, 68, 69	FW, FX, FY, FZ, GA and GB
HESSCSNUM	SCS ranking.	40	I
HESSCSYATYPE	Indicates type of year abroad.	99	GC
HESSTULOAD_INPOP	Sum of RPSTULOAD for included SCSs.	73	GD
HESOTWORKWKS	Total number of weeks spent working abroad.	49	GE
HESATYPE	Fundability status.	61	BD
HESUGPYR	Number of undergraduate (UG) years of instance in 2021-22.	105	GF

Name	Description	Paragraph	Column in Individualised file
HESUGPYR2	Number of UG years of instance in 2020-21.	104	GG
HESWORKWKS1-3	Maximum number of weeks that may be spent working abroad for each mobility experience.	48	GH, GI and GJ
HESYAPOP	Indicates whether the year of engagement is included in the count of Table 4 years abroad.	101	BE
HESYATYPE	Type of fee charged to students spending a year abroad.	100	BF
HESYOENUM	Year of engagement identifier.	45	F
HESYRZERO	The year in which a student last took a foundation year.	86	GK
HESYRZERROADJ	Indicates whether the student has taken a foundation year.	87	GL
INSTAPPYR	2021-22 approximation indicator.	35	GM
LOADYRBPYR	FTE in year B for 2021-22.	37	GN
MOBScheme1-3	Type of mobility scheme.	29	CN, CO and CP
OVAID1-3	Off venue activity identifiers.	29	CR, CS and CT
PRINONUK1-3	Majority of study outside of UK identifiers.	31	CX, CY and CZ
STATUSCHANGEDTO1-3	Status change in SCS identifiers.	30	DQ, DR and DS
STUACCID1-3	Specific accreditation identifiers.	26	BP, BQ and BR
STUDYLOCID1-3	Study location identifiers.	31	DU, DV and DW
STUINITID1-3	Student scheme initiative identifiers.	27	BS, BT and BU
STULOADPYR	STULOAD value from the 2021-22 record	36	GO
TYPEYRPYR	TYPEYR from the 2021-22	38	GP
Z_OVADAYSCS1-3	Length of off venue activity during a student course session.	29	DZ, EA and EB

## Fields in entities in which the maximum occurrences is unbounded

23. A particular SCS may have some fields returned for it that belong to entities where the maximum occurrences of that entity is unbounded. Where this happens, all occurrences of the entity will be used in our algorithms, but due to file size restrictions we only show three occurrences of the entity in the individualised file.

### Course initiative entity: COURSEINITIDX

24. These fields indicate if a specific scheme is associated with the course, where X denotes the Course initiative entity. For example, COURSEINITID2 is the initiative identifier field (COURSEINITIATIVEID) from the second Course initiative entity. We only use COURSEINITIATIVEIDs that are valid during at least part of this SCS, i.e. where the COURSEINITVALIDFROM and COURSEINITVALIDTO dates overlap with at least part of this SCS, and the three shown are those with the three most recent values of COURSEINITVALIDTO. Where more than one COURSEINITIATIVEID has the same COURSEINITVALIDTO date, we display the values with the earliest COURSEINITVALIDFROM dates. Where more than one COURSEINITIATIVEID has the same COURSEINITVALIDFROM date, we display the those with the lowest values of COURSEINITIATIVEID.

### Curriculum accreditation entity: CURACCIDX

25. These fields indicate if a specific accreditation type is associated with the course, where X denotes the Curriculum accreditation entity. For example, CURACCID2 is the accreditation identifier field (CURACCID) from the second Curriculum accreditation entity. We only use CURACCIDs that are valid during at least part of this SCS, i.e. where the CURACCVALIDFROM and CURACCVALIDTO dates overlap with at least part of this SCS, and the three shown are those with the three most recent values of CURACCVALIDTO. Where more than one CURACCID has the same CURACCVALIDTO date, we display the values with the earliest CURACCVALIDFROM dates. Where more than one CURACCID has the same CURACCVALIDFROM date, we display the those with the lowest values of CURACCID.

### Student accreditation entity: STUACCIDX

26. These fields indicate if a specific accreditation type is associated with the student, where X denotes the Student accreditation aim entity. For example, STUACCID2 is the accreditation identifier field (STUACCID) from the second Student accreditation aim entity. The three shown are those with the three lowest values of STUACCID.

### Student initiative entity: STUINITIDX

27. These fields indicate if a specific scheme is associated with the student, where X denotes the Student initiative entity. For example, STUINITID2 is the initiative identifier field (STUINITID) from the second Student initiative entity. The three shown are those with the three lowest values of STUINITID.

### Funding body entity: FUNDINGBODYX

28. These fields indicate the funding body for this SCS, where X denotes the Funding body entity. For example, FUNDINGBODY2 is the funding body field (FUNDINGBODY) from the second

Funding body entity. The three shown are those with the three lowest values of FUNDINGBODY.

### **Off venue activity entity: OVAIDX, Z\_OVADAYSCSX, ACTTYPEIDX, MOBSCHEMEX**

29. These fields indicate the:

- identifiers
- activity duration amounts
- activity type identifiers
- mobility schemes

for the off-venue activities for this SCS, where X denotes the Off venue activity entity. For example, OVAID2 is the identifier (OVAID) from the second Off venue activity entity. The three shown are those with the three largest values of Z\_OVADAYSCS.

### **Session status entity: STATUSCHANGEDTOX**

30. These fields indicate the status the student has moved to in this SCS, where X denotes the Session status entity. For example, STATUSCHANGEDTO2 is the status changed to field (STATUSCHANGEDTO) from the second Session status entity. The three shown are those with the three most recent values of STATUSVALIDFROM.

### **Study location entity: STUDYLOCIDX, DISTANCEX, PRINONUKX**

31. These fields indicate if the student is distance learning for at least part of this SCS, and if the student spends the majority of their Engagement outside of the UK and are currently outside the UK for this SCS respectfully, where X denotes the Study location entity. For example, DISTANCE2 is the distance learning field (DISTANCE) from the second Study location entity. The three shown are those with the three largest values of STUDYPROPORTION.

## **Linking between years**

32. We have linked the 2022-23 data to earlier years' data using UKPRN, SID/HUSID and NUMHUS. This is to help account for definitional differences between the student record and HESES data. HESLINKPYR is equal to 1 where records have been linked to 2021-22 data by this method.

33. The data from earlier years will be used to help determine the FTE for some students on standard years of instance who were on a non-standard year of instance in the previous year and for students on medical or dental programmes that have taken a foundation year.

34. We have also linked 2022-23 data to 2021-22 and 2020-21 data using the fields UKPRN and SID/HUSID, for the purpose of deriving HESNEWENTRANT.

### **INSTAPPYR**

35. This field contains the indicator for funding approximations for 2021-22 (2021-22 INSTAPP).



## STULOADPYR

36. This field contains the student instance FTE for 2021-22 (2021-22 STULOAD).

## LOADYRBPYR

37. This field contains the FTE in year B for 2021-22 (2021-22 LOADYRB).

## TYPEYRPYR

38. This field contains the value of the type of year of instance for 2021-22 (2021-22 TYPEYR).

## Student course session and engagement derived fields

39. Where a derived field applies to the engagement as a whole, the value of the derived field will be repeated across each SCS.

## HESSCSNUM

40. The value of HESSCSNUM indicates the ranking of the SCS (as described in paragraphs 18-20 above) within a given year of engagement, with the first ranked SCS having a value of 1. The data associated with the first ranked SCS is used to define the year of engagement in the HESES22 population.

## HESDISTANCE

41. This field indicates if the student is distance learning for at least part of this SCS.

Value	Description	Definition
1	Student is distance learning for at least part of this SCS	At least one value of DISTANCEX = 01, 02
0	Otherwise	Otherwise

## HESENGSTARTDATE

42. This field contains the engagement's start date (ENGSTARTDATE) unless the engagement began with a preparatory course and is now in the main course.

Value	Description	Definition
SCSSTARTDATE of the first SCS that starts after the SCSENDDATE of the SCS where PREPFLAG = 01, 02, 03 and ENGSTARTDATE = SCSSTARTDATE	Engagement began with a preparatory course and is now in the main course	PREPFLAG = BLANK and another SCS exists for this combination of SID and NUMHUS where PREPFLAG = 01, 02, 03 and ENGSTARTDATE = SCSSTARTDATE
ENGSTARTDATE	Otherwise	Otherwise

## HESANNIV

43. This field contains the anniversary of the engagement's start date (HESENGSTARTDATE) in the current academic year.

## HESLINKPYR

44. This field indicates if a successful link was made between the 2022-23 data and 2021-22 data that may inform the calculation of FTE for some students.

Value	Description
1	A link was made to 2021-22 data using the method described in paragraphs 32-34 of this document
0	Otherwise

## HESYOENUM

45. This field uniquely identifies years of engagement when used in conjunction with UKPRN, SID and NUMHUS, and assigns SCSs to the appropriate year of engagement. This can happen where either the student is on a foundation degree bridging course that is countable in the year of engagement, or the student undertakes activity both before and after the anniversary of their commencement date and has not undertaken activity in the first year of engagement in the previous academic year (this latter case is only calculated for providers that submitted the Student return in 2021-22). These records are distinguished using HESYOENUM.

Value	Description	Definition
2	This SCS belongs to second countable year of engagement	PREPFLAG = 01, 02, 03 or (PREPFLAG = BLANK and SCSSTARTDATE < HESANNIV – 14 and SCSENDDATE < HESANNIV + 14 and SCSENDDATE ≠ BLANK and ((LOADYRBPYR = 0 and INSTAPPPYR = 1 and TYPEYRBPYR = 2, 4) or ((STULOADPYR = 0 or HESLINKPYR = 0) and ENGSTARTDATE < 1 August 2021)))
0	Activity for this SCS does not fall within the 2022-23 year of engagement	SCSENDDATE < HESANNIV + 14 and SCSENDDATE ≠ BLANK and SCSSTARTDATE < HESANNIV – 14 and not above
1	This SCS belongs to first countable year of engagement	Otherwise

## HESCRSELGTH

46. This field contains the expected length of the course in whole numbers of years, calculated from the difference between HESENGSTARTDATE and ENGEXPECTEDENDDATE <sup>1</sup>. Expected course lengths that contain a fraction of a year that exceeds two weeks are rounded up to the next whole year. Otherwise, the value is rounded down to the nearest whole number of years, except where the expected course length is less than one year – such expected course lengths will be rounded up to one year. For example, an expected length of course that is one year and three weeks will be rounded up to two years. An expected length of course that

<sup>1</sup> ENGEXPECTEDENDDATE is used as a temporary measure until the derived field Z\_EXPECTOEND is available.

is one year and one week will be rounded down to one year. Where ENGEXPECTEDENDDATE is not calculated, HESCRSELGTH is set to 6.

## HESNOTACTIVE

47. This field indicates if the student is dormant, intercalating or writing up for the entirety of this SCS.

Value	Description	Definition
1	Student is dormant, intercalating or writing up for the entirety of this SCS	All values of STATUSCHANGEDTOX are 02, 03, 04
0	Otherwise	Otherwise

## HESWORKWKSX

48. These fields record the maximum number of weeks that may be spent working abroad for the off-venue activities for this SCS, where X denotes the off-venue activity (activities are ordered by descending Z\_OVADAYSCS, and the off-venue activity entity represented by X in HESWORKWKSX is the same off-venue activity entity identified in OVAIDX). The number of off-venue activities is unbounded; due to file size restrictions we only show information for the three longest off-venue activities in the individualised file.

Value	Description	Definition
Z_OVADAYSCSX ÷ 7	The off-venue activity is spent working	ACTTYPEIDX = 02, 03
0	The off-venue activity is not spent working	Otherwise

## HESTOTWORKWKS

49. This field records the total number of weeks spent working during this engagement. HESTOTWORKWKS is the sum of all HESWORKWKSX values for this engagement for SCSs where HESSCSEXCL = 0, including those calculated for off-venue activities not shown in the individualised file (due to the file size restriction).

## HESREG

50. This field assigns students to Column 1 or 2 of Tables 1 to 3 of the HESES recreation.

Value	Description	Definition
1	Column 1 student	HESANNIV < 2 December 2022
2	Column 2 student	Otherwise

## HESMODE

51. This field allocates students to a mode of study for this SCS.

Value	Description	Definition
SWOUT	Sandwich year out	SCSMODE = 01, 03 and PREPFLAG = BLANK and (PLACEMENT = 01, 02 or (STUDYABROAD = 01 and HESTOTWORKWKS > 20))
FTS	Full-time	SCSMODE = 01, 03 and PREPFLAG = BLANK and not above
PT	Part-time	Otherwise

## HESPGLOANELIGIBILITY

52. This field identifies if the course related to this SCS is eligible for a postgraduate loan.

Value	Description	Definition
1	Course related to this SCS is eligible for a postgraduate loan	At least one value of COURSEINITIDX = 005 or at least one value of STUINITIDX = 005
0	Otherwise	Otherwise

## HESACCREDARCTWO

53. This field identifies if the course related to this SCS is prescribed by the Architects Registration Board (ARB) at Part 2 level for the purpose of registration in the UK.

Value	Description	Definition
1	Course related to this SCS is prescribed by the Architects Registration Board (ARB) at Part 2 level for the purpose of registration in the UK	At least one value of CURACCIDX = 00103
0	Otherwise	Otherwise

## HESHEALTHPROF1

54. This field identifies the profession of a nursing, midwifery and allied health course. Where there is more than one profession, the other profession is identified in HESHEALTHPROF2.

55. The CURACCIDXs for this SCS (including those not shown in the individualised file) are filtered to values 05808, 05809, 06903, 06904, 06906, 06907, 06908, 06910, 06912, 06915, 06917, 06918, 11102, 11103, 11104, 11105, 11106, 11108 and then sorted into ascending order. The first listed CURACCIDX for this SCS is used to calculate HESHEALTHPROF1.

56. Similarly the STUACCIDXs for this SCS (including those not shown in the individualised file) are filtered to values 11102, 11103, 11104, 11105, 11108 and then sorted into ascending order. The first listed STUACCIDX for this SCS is used to calculate HESHEALTHPROF1.

Value	Description	Definition
DENTHE	Dental therapy	First listed CURACCIDX = 05808
DENHYG	Dental hygiene	First listed CURACCIDX = 05809
DIETET	Dietetics	First listed CURACCIDX = 06904
NURSAD	Nursing - adult	First listed CURACCIDX = 11102 or (First listed CURACCIDX = 11108 and first listed STUACCIDX = 11102 for this SCS)
NURSCH	Nursing - children	First listed CURACCIDX = 11105 or (First listed CURACCIDX = 11108 and first listed STUACCIDX = 11105 for this SCS)
NURSLD	Nursing - learning disability	First listed CURACCIDX = 11104 or (First listed CURACCIDX = 11108 and first listed STUACCIDX = 11104 for this SCS)
NURSMH	Nursing - mental health	First listed CURACCIDX = 11103 or (First listed CURACCIDX = 11108 and first listed STUACCIDX = 11103 for this SCS)
NURSUN	Nursing - unclassified	First listed CURACCIDX = 11108 and not above
MIDWIF	Midwifery	First listed CURACCIDX = 11106
OCCTHE	Occupational therapy	First listed CURACCIDX = 06906
OPDEPT	Operating department practice	First listed CURACCIDX = 06907
ORTHOP	Orthoptics	First listed CURACCIDX = 06908
ORTPRO	Orthotics and prosthetics	First listed CURACCIDX = 06912
PHYSIO	Physiotherapy	First listed CURACCIDX = 06910
PODCHI	Podiatry	First listed CURACCIDX = 06903
RADTHE	Radiography (therapeutic)	First listed CURACCIDX = 06917
RADDIA	Radiography (diagnostic)	First listed CURACCIDX = 06918
SPELAN	Speech and language therapy	First listed CURACCIDX = 06915
BLANK	Otherwise	Otherwise

## HESHEALTHPROF2

57. This field identifies the other profession of a nursing, midwifery and allied health course, where more than one profession exists.

58. Where a second CURACCIDX for this SCS is listed following the method in paragraph 25 and is in this list 05809, 11103, 11104, 11105 then HESHEALTHPROF2 is set as follows:

Value	Description	Definition
DENHYG	Dental hygiene	Second listed CURACCIDX = 05809
NURSCH	Nursing - children	Second listed CURACCIDX = 11105 or (First listed CURACCIDX = 11108 and second listed STUACCIDX = 11105 for this SCS)

Value	Description	Definition
NURSLD	Nursing - learning disability	Second listed CURACCIDX = 11104 or (First listed CURACCIDX = 11108 and second listed STUACCIDX = 11104 for this SCS)
NURSMH	Nursing - mental health	Second listed CURACCIDX = 11103 or (First listed CURACCIDX = 11108 and second listed STUACCIDX = 11103 for this SCS)
BLANK	Otherwise	Otherwise

## HESLEVEL

59. This field allocates students to a level of study for this SCS.

Value	Description	Definition
UG_45	Undergraduate course at Level 4 or 5	PREREQUISITE = 01 and QUALCAT = C0000, C0001, C0002, C0003, C0004, C0005, C0006, C0007, C0009, I0002, I0004, I0005, I0006, I0007, I0008, I0009, I0010, I0013, J0000, J0001, J0002, J0003, J0004, J0005, J0006, J0007, J0010, J0012 and PREPFLAG = BLANK
UG_OTH	Other undergraduate course	PREREQUISITE = 01 and not above
PGT_UGF	Postgraduate taught and eligible under the undergraduate student support regime	PREREQUISITE = 02 and (NONREGFEE = BLANK or HESHEALTHPROF1 ≠ BLANK, DENTHE, DENHYG or HESHEALTHPROF2 ≠ BLANK, DENTHE, DENHYG)
PGT_ML	Postgraduate taught course eligible for masters' loans	PREREQUISITE = 02 and HESPGLOANELIGIBILITY = 1 and (QUALCAT = M0003, M0004, M0006, M0007 or HESACCREDARCTWO = 1) and not above
PGT_OTH	Postgraduate taught course that does not fall under the previous two categories	PREREQUISITE = 02 and not above
PGR	Postgraduate research	PREREQUISITE = 03

## HESEC

60. This field indicates whether a student has a UK, Crown Dependencies, Ireland, EU, or other domicile.

Value	Description	Definition
UK	UK-domiciled	PERMADDCOUNTRY = XF, XG, XH, XI, XK
CROWN	Crown Dependencies domiciled	PERMADDCOUNTRY = GG, IM, JE, XL
IE	Irish nationals domiciled in Ireland	PERMADDCOUNTRY = IE and NATION = IE
OEU	Other Home and EU domiciled	PERMADDCOUNTRY = AI, AN, AT, AW, AX, BE, BG, BL, BM, BQ, CH, CW, CZ, DE, DK, EE, ES, EU, FI, FK, FO, FR, GF, GI, GL, GP, GR, GS, HR, HU, IC, IE, IS, IT, KY, LI, LT, LU, LV, MF, MQ, MS, MT, NC, NL, NO, PF, PL, PM, PN, PT, RE, RO, SE, SH, SI, SK, SX, TC, VG, WF, XA, YT and not above
OTHER	Otherwise	Otherwise

## HESYPE

61. This field allocates students to the three categories of fundability and residential status.

Value	Description	Definition
HOMEF	Home fee OfS-fundable	At least one value of FUNDINGBODYX = 5016
HOMENF	Home fee non-fundable	(FEEELIG = 01 or (FEEELIG = 03 and (HESEC = UK, IE or (HESEC = CROWN and HESDISTANCE = 0) or (HESEC = OEU and ENGSTARTDATE < 1 August 2021)))) and not above
ISOV	Overseas	Otherwise

## HESLENGTH

62. This field indicates whether the student is on a standard or long year of engagement.

Value	Description	Definition
L	Long	FUNDLENGTH = 01
S	Standard	Otherwise

## Student course session exclusions

63. Each SCS is assessed to determine whether it is included in the HESES22 population. The following derived fields explain the reasons for a SCS being excluded.

### HESSCSEXCL1

64. Field indicating that a qualification aim of National Vocational Qualification (NVQ) or Qualified Teacher Status (QTS) only, or visiting students, is associated with the SCS.

Value	Description	Definition
1	NVQ or QTS only or visiting student qualification aim associated with the SCS	QUALCAT = C0004, D0005, E0001, E0005, H0008, H0020, I0005, I0007, I0013, J0006, J0007, L0003, M0011, M0013, M0024
0	Otherwise	Otherwise

## HESSCSEXCL2

65. Field indicating that the SCS is explicitly excluded from the HESES population.

Value	Description	Definition
1	SCS explicitly excluded from the HESES population	FUNDLENGTH = 96
0	Otherwise	Otherwise

## HESSCSEXCL4

66. Field indicating student is taught primarily outside of the UK for the engagement and is outside of the UK for at least some of the SCS.

Value	Description	Definition
1	Student taught mostly outside the UK for the SCS	At least one value of PRINONUKX = 01
0	Otherwise	Otherwise

## HESSCSEXCL8

67. Field indicating student is dormant, intercalating or writing up for the entirety of the SCS.

Value	Description	Definition
1	Student who is dormant or writing up for the SCS	HESNOTACTIVE = 1 or RPSTULOAD = 0 or (PREPFLAG = 01, 02, 03 and SCSENDDATE = BLANK)
0	Otherwise	Otherwise

## HESSCSEXCL16

68. Activity for the SCS does not fall within the 2022-23 year of engagement.

Value	Description	Definition
1	Activity for this SCS does not fall within the 2022-23 year of engagement	HESYOENUM = 0
0	Otherwise	Otherwise



## HESSCSEXCL32

69. Field indicating where an SCS belongs to the same year of engagement as the previous SCS.

Value	Description	Definition
1	The SCS belongs to the same year of engagement as the previous SCS	SCSENDDATE – SCSSTARTDATE < 14 and ENGSTARTDATE < 1 August 2022 and RSNENGEND = 01, 98
0	Otherwise	Otherwise

## HESSCSEXCL

70. This field indicates whether the SCS is included in the HESES22 population. For SCSs excluded from the population, HESSCSEXCL contains the sum of all applicable values from the table below.

Value	Description	Definition
1	NVQ or QTS only or visiting student qualification aim associated with the SCS	HESSCSEXCL1 = 1
2	SCS explicitly excluded from the HESES population	HESSCSEXCL2 = 1
4	Student taught mostly outside the UK for the SCS	HESSCSEXCL4 = 1
8	Student who is dormant or writing up for the SCS	HESSCSEXCL8 = 1
16	Activity for the SCS does not fall within the 2022-23 year of engagement	HESSCSEXCL16 = 1
32	The SCS belongs to the same year of engagement as the previous SCS	HESSCSEXCL32 = 1
0	Otherwise	None of the above

71. This field contains the exclusion reason(s) for the SCS. It is calculated as  $(1 \times \text{HESSCSEXCL1}) + (2 \times \text{HESSCSEXCL2}) + \dots + (32 \times \text{HESSCSEXCL32})$ . The reason(s) which contribute to the exclusion of an SCS can therefore be calculated. For example, if  $\text{HESSCSEXCL} = 10$ , by subtracting figures from the above table and starting at the bottom, we see that the SCS is associated with a student who is dormant or writing up ( $\text{HESSCSEXCL8} = 1$ ) and who is explicitly excluded from the HESES population ( $\text{HESSCSEXCL2} = 1$ ).

## Calculation of FTE

### HESFTE\_CASE

72. For part-time years of engagement the method used to calculate HESESFTE is dependent on the following factors:

- Number of countable years of engagement generated in the HESES recreation.
- Whether the year of engagement countable in the current academic year is standard or non-standard.

- c. Whether the engagement started in the current academic year.
- d. Whether the year of engagement is a preparatory course.

The table below shows how we identify different cases of the FTE calculation.

Value	Description	Definition
1	Standard year of engagement	HESYOENUM = 1 and SCSSTARTDATE ≥ HESANNIV - 14 and SCSENDDATE ≠ BLANK
2	Non-standard year of engagement and an engagement that starts in the current academic year	HESYOENUM = 1 and SCSSTARTDATE ≥ HESANNIV - 14 and SCSENDDATE = BLANK and HESENGSTARTDATE > 31 July 2022
3	Non-standard year of engagement and an engagement that does not start in the current academic year	HESYOENUM = 1 and SCSSTARTDATE ≥ HESANNIV - 14 and SCSENDDATE = BLANK and HESENGSTARTDATE < 1 August 2022
4	Year of engagement is a foundation degree bridging course	HESYOENUM = 2 and PREPFLAG = 01 and SCSENDDATE ≠ BLANK
5	Year of engagement is another preparatory course	HESYOENUM = 2 and PREPFLAG = 02, 03 and SCSENDDATE ≠ BLANK
6	Year of engagement with activity before the anniversary (where student undertakes activity both before and after the anniversary of their commencement date and has not undertaken activity in the first year of engagement in the previous academic year)	HESYOENUM = 2 and PREPFLAG = BLANK

### HESSTULOAD\_INPOP

73. This field shows the sum of RPSTULOAD for every SCS in this year of engagement where HESSCSEXCL = 0.

### HESAVRGFTEPOP

74. HESAVRGFTEPOP is used to identify students who are on non-standard years, with a RPSTULOAD for the SCS with (HESSCSNUM = 1) of greater than 0 and who are part of the HESES population. These students are then used to calculate the average FTE to apply to students on non-standard years who have an engagement that starts in the current academic year (HESFTE\_CASE = 2).

75. The 2022-23 average FTE population is defined as follows:

Value	Description	Definition
1	In the 2022-23 average FTE population	HESSCSNUM = 1 and HESYOENUM = 1 and SCSENDDATE = BLANK and HESENGSTARTDATE < 1 August 2022 and Z_STULOAD_CYC ≠ 0 and FUNDLLENGTH ≠ 96 and STATUSCHANGEDTO1 = BLANK, 01 and HESMODE = PT
0	Otherwise	Otherwise

## HESAVRGFTEYPE

76. This field identifies the level at which HESAVRGFTE is calculated for all students on non-standard years (SCSENDDATE = BLANK for the SCS with (HESSCSNUM = 1)).

Value	Description
1	Level 1 – There are 10 or more students in the average FTE population (HESAVRGFTEPOP = 1) at a given provider (UKPRN) who have the same qualification category (QUALCAT), mode (SCSMODE), and expected course length (HESCRSELGTH).
2	Level 2 – There are 10 or more students in the average FTE population (HESAVRGFTEPOP = 1) at a given provider (UKPRN) who have the same qualification category (QUALCAT) and not above.
3	Level 3 – There are 10 or more students in the average FTE population (HESAVRGFTEPOP = 1) at a given provider (UKPRN) who have the same level of study (HESLEVEL) and not above.
4	Level 4 – Level of study (HESLEVEL) in the 2021-22 average FTE population and not above. For Levels of study UG_45 and UG_OTH records will be matched with the UG average population from 2021-22. For Levels of study PGT_ML and PGT_OTH records will be matched with the PGT average FTE population from 2021-22.

77. The 2021-22 average FTE population is defined as follows for 2021-22 HESA Student data:

2021-22 TYPEYR ≠ 1 and

2021-22 COMDATE < 1 August 2021 and

2021-22 ENDDATE = BLANK and

2021-22 HESCOMP ≠ 3 and

2021-22 HESEXCL = 0 and

2021-22 MODE ≠ 43, 44, 51, 73, 74 and

2021-22 HESMODE = PT.

78. The 2021-22 average FTE population is defined as follows for 2021-22 HESA Student Alternative data. Note that for each instance in the population 2021-22 STULOAD is calculated by summing HESSTULOAD\_PX for instance periods where (HESEXCL\_PX = 0, 32):

2021-22 COMDATE < 1 August 2021 and

2021-22 ENDDATE = BLANK and

2021-22 HESCOMP ≠ 3 and

2021-22 HESEXCL = 0 and

2021-22 HESMODE\_P1 ≠ 43, 44 and

2021-22 HESMODE = PT.

## HESAVRGFTE

79. This field gives the average Z\_STULOAD\_CYC for the population identified in HESAVRGFTETYPE. This field is only completed for students on non-standard years of engagement (HESSENDDATE = BLANK for the SCS with (HESCSNUM = 1)).

80. Note: HESAVRGFTE is calculated for all students on non-standard years of engagement, however it is only used to calculate HESEFTE for those students who have an engagement that starts in the current academic year (HESFTE\_CASE = 2).

## Example

81. A provider only has 46 students in the 2022-23 average FTE population.

UKPRN	QUALCAT	SCSMODE	HESCRSELGTH	TOTAL
10000000	H0003	31	2	9
10000000	H0003	31	3	12
10000000	H0003	31	1	25

82. For a student at this provider with QUALCAT = H0003, SCSMODE = 31, HESCRSELGTH = 1, HESAVRGFTETYPE would be 1 as there are more than 9 students in the average FTE population that match on QUALCAT, SCSMODE and HESCRSELGTH.

83. For a student at this provider with QUALCAT = H0003, SCSMODE = 31, HESCRSELGTH = 2, HESAVRGFTETYPE would be 2 as there are fewer than 10 students in the average FTE population that match on QUALCAT, SCSMODE and HESCRSELGTH, but there are more than 9 (46) that match on QUALCAT alone.

## HESEFTE

84. This field contains the FTE counted for the year of engagement. HESEFTE is capped at 100.

Value	Definition
30	HESFTE_CASE = 4
RPSTULOAD	HESFTE_CASE = 5
100	HESMODE = FTS and not above
50	HESMODE = SWOUT and not above

Value	Definition
HESSTULOAD_INPOP	HESFTE_CASE = 1, 6 and not above
HESAVRGFTE	HESFTE_CASE = 2 and not above
Z_STULOAD_CYC	HESFTE_CASE = 3 and not above
0	Otherwise

## Calculation of price groups

### HESMDV

85. This field identifies pre-clinical and clinical medicine, dentistry and veterinary science students by seeing if the course related to this SCS is a primary medical qualification which entitles the holder to apply to the GMC for registration to practise medicine in the UK, enables eligibility for registration with the GDC as a dentist or enables eligibility for registration with the RCVS as a veterinary surgeon.

Value	Description	Definition
MED	Pre-clinical or clinical medicine student	At least one value of CURACCIDX = 05901
DEN	Pre-clinical or clinical dentistry student	At least one value of CURACCIDX = 05803
VET	Pre-clinical or clinical veterinary science student	At least one value of CURACCIDX = 12001
OTH	Otherwise	Otherwise

### HESYZERO

86. This field indicates the year in which a student last took a foundation year (YEARPRG = 0) as part of this engagement. For students who have not taken a foundation year, this field is blank. We have linked back to 2005-06 HESA Student data.

### HESYZEROADJ

87. This field indicates whether the student took a foundation year (YEARPRG = 0) as part of this engagement since 2005-06.

Value	Description	Definition
1	Foundation year taken as part of engagement	HESYZERO ≠ BLANK or (YEARPRG = 0 and PREPFLAG = BLANK)
0	Otherwise	Otherwise

### HESCLIN

88. This field identifies clinical medicine, dentistry and veterinary science students who are assigned to price group A.

Value	Description	Definition
1	Activity assigned to price group A for students on a first registrable medical qualification, first registrable dental qualification or course which leads to eligibility to register to practise as a veterinary surgeon	(HESMDV = MED and (HESCRSELGTH – YEARPRG – HESYRZERROADJ) = 0, 1, 2) or (HESMDV = DEN and (HESCRSELGTH – YEARPRG – HESYRZERROADJ) = 0, 1, 2, 3) or (HESMDV = VET and (HESCRSELGTH – YEARPRG – HESYRZERROADJ) = 0, 1, 2, 3, 4)
2	Postgraduate clinical medicine or dentistry student assigned to price group A	HESLEVEL = PGR, PGT_ML, PGT_OTH, PGT_UGF and (QUALSUBJECT1 = 100266, 100267, 100494 or QUALSUBJECT2 = 100266, 100267, 100494 or QUALSUBJECT3 = 100266, 100267, 100494 or QUALSUBJECT4 = 100266, 100267, 100494 or QUALSUBJECT5 = 100266, 100267, 100494)
3	Postgraduate clinical veterinary science student assigned to price group A	HESLEVEL = PGR, PGT_ML, PGT_OTH, PGT_UGF and (QUALSUBJECT1 = 100531, 101347 or QUALSUBJECT2 = 100531, 101347 or QUALSUBJECT3 = 100531, 101347 or QUALSUBJECT4 = 100531, 101347 or QUALSUBJECT5 = 100531, 101347)
0	Otherwise	Otherwise

## HESACCREDSOCIAL

89. This field identifies if the course related to this SCS is for social work that can be mapped to price group C2.

Value	Description	Definition
1	Course related to this SCS is for social work that can be mapped to price group C2	At least one value of CURACCIDX = 02202, 02203, 06921, 06922, 11001, 11110, 13001
0	Otherwise	Otherwise

## HESPRGA, HESPRGB, HESPRGC11, HESPRGC12, HESPRGC2, HESPRGD

90. The proportion of activity in each price group. The Common Aggregation Hierarchy (CAH) codes listed include all sub-levels, unless otherwise stated.

Field name	Definition	Value
HESPRGC2	HESMODE = SWOUT	1

Field name	Definition	Value
HESPRGA	HESCLIN = 1, 2, 3 or HESHEALTHPROF1 = DENHYG or HESHEALTHPROF2 = DENHYG or (HESHEALTHPROF1 = DENTHE and HESLEVEL = UG_45, UG_OTH) or (HESHEALTHPROF2 = DENTHE and HESLEVEL = UG_45, UG_OTH) and not above	1
HESPRGB	HESHEALTHPROF1 = DENTHE, DIETET, MIDWIF, OCCTHE, OPDEPT, ORTHOP, ORTPRO, PHYSIO, PODCHI, RADTHE, RADDIA, SPELAN or HESHEALTHPROF2 = DENTHE, DIETET, MIDWIF, OCCTHE, OPDEPT, ORTHOP, ORTPRO, PHYSIO, PODCHI, RADTHE, RADDIA, SPELAN and not above	1
HESPRGC11	HESHEALTHPROF1 = NURSUN, NURSAD, NURSCH, NURSLD, NURSMH or HESHEALTHPROF2 = NURSUN, NURSAD, NURSCH, NURSLD, NURSMH and not above	1
HESPRGC2	TTCID = 01, 02, 06 or (TTCID = 03 and QTS = 02) or HESACCREDSOCIAL = 1 and not above	1

Field name	Definition	Value
HESPRGB	<p>QUALSUBJECTX corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p>CAH01, CAH02-02, CAH02-05, CAH02-06-01, CAH02-06-02, CAH02-06-03, CAH02-06-06 (only when QUALSUBJECTX = 100241, 100243), CAH03-01-01, CAH03-01-02, CAH03-01-03, CAH03-01-04, CAH03-01-05, CAH03-01-06, CAH03-01-07, CAH03-01-08, CAH03-01-10, CAH05, CAH06-01-01, CAH06-01-02, CAH06-01-03, CAH06-01-05, CAH06-01-07, CAH07, CAH10-01-01, CAH10-01-02, CAH10-01-03 (only when QUALSUBJECTX = 100152, 100170, 100193, 100201, 100202, 100205, 100206, 100209, 100211, 101397, 101398), CAH10-01-04, CAH10-01-05, CAH10-01-06, CAH10-01-07 (only when QUALSUBJECTX = 100120, 100148, 100153, 100154, 100156, 100157, 100180, 100551, 100565), CAH10-01-08, CAH10-01-09, CAH10-01-10, CAH10-03-01, CAH10-03-02, CAH10-03-03, CAH10-03-04, CAH10-03-05, CAH10-03-06 (only when QUALSUBJECTX = 100186, 100222, 100230, 100560, 101356), CAH10-03-07, CAH15-01-04 (only when QUALSUBJECTX = 101218), CAH26-01-04, CAH26-01-06</p> <p>and not above</p>	Sum of QUALPROPORTION1, QUALPROPORTION2, QUALPROPORTION3, QUALPROPORTION4, QUALPROPORTION5 divided by 100
HESPRGC11	<p>QUALSUBJECTX corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p>CAH11, CAH20-01-03, CAH26-01-05 (only when QUALSUBJECTX = 100369)</p> <p>and not above</p>	Sum of QUALPROPORTION1, QUALPROPORTION2, QUALPROPORTION3, QUALPROPORTION4, QUALPROPORTION5 divided by 100
HESPRGC12	<p>QUALSUBJECTX corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p>CAH10-01-03 (only when QUALSUBJECTX = 100109, 100110), CAH24-01-01, CAH24-01-03, CAH24-01-04, CAH24-01-05, CAH25</p> <p>and not above</p>	Sum of QUALPROPORTION1, QUALPROPORTION2, QUALPROPORTION3, QUALPROPORTION4, QUALPROPORTION5 divided by 100



Field name	Definition	Value
HESPRGC2	<p>QUALSUBJECTX corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p>CAH02-04, CAH02-06-04, CAH02-06-05, CAH02-06-06 (only when QUALSUBJECTX = 100233, 100234, 100235, 100236, 100237, 100239, 100242, 100253, 100739, 101241, 101340, 101375), CAH02-06-07, CAH03-01-09, CAH03-02, CAH04, CAH06-01-06, CAH06-01-08, CAH09, CAH10-01-03 (only when QUALSUBJECTX = 100213), CAH10-01-07 (only when QUALSUBJECTX = 100219, 100548, 100549, 101048), CAH10-03-06 (only when QUALSUBJECTX = 100093), CAH13, CAH15-04-03, CAH17-01-06, CAH19-04-01, CAH19-04-02, CAH19-04-03, CAH19-04-04, CAH19-04-05, CAH19-04-06, CAH19-04-07, CAH19-04-09, CAH26-01-01, CAH26-01-02, CAH26-01-03, CAH26-01-05 (only when QUALSUBJECTX = 101056)</p> <p>and not above</p>	Sum of QUALPROPORTION1, QUALPROPORTION2, QUALPROPORTION3, QUALPROPORTION4, QUALPROPORTION5 divided by 100
HESPRGD	<p>QUALSUBJECTX corresponds to one of the following Common Aggregation Hierarchy codes:</p> <p>CAH06-01-04, CAH15-01-01, CAH15-01-02, CAH15-01-03, CAH15-01-04 (only when QUALSUBJECTX = 100436, 100437, 100663), CAH15-01-05, CAH15-01-06, CAH15-02, CAH15-03, CAH15-04-01, CAH15-04-02, CAH16, CAH17-01-01, CAH17-01-02, CAH17-01-03, CAH17-01-04, CAH17-01-05, CAH17-01-07, CAH17-01-08, CAH17-01-09, CAH19-01, CAH19-02, CAH19-04-08, CAH20-01-01, CAH20-01-02, CAH20-01-04, CAH20-01-05, CAH20-02, CAH22, CAH23, CAH24-01-02</p> <p>and not above</p>	Sum of QUALPROPORTION1, QUALPROPORTION2, QUALPROPORTION3, QUALPROPORTION4, QUALPROPORTION5 divided by 100

## Engagement exclusions

91. The engagement is assessed to determine whether it is included in the HESES22 population. The following derived fields explain the reasons for an engagement being excluded.

### HESENGEXCL1

92. Field indicating students who have left prior to the start of the academic year.

Value	Description	Definition
1	Student not active in academic year	ENGENDDATE ≠ BLANK and ENGENDDATE < 1 August 2022

Value	Description	Definition
0	Otherwise	Otherwise

## HESENGEXCL2

93. Field indicating incoming exchange student for the engagement.

Value	Description	Definition
1	Incoming exchange student	INCOMINGEXCHANGE = 01, 02, 03
0	Otherwise	Otherwise

## HESENGEXCL4

94. Field indicating students with an FTE of less than 0.03.

Value	Description	Definition
1	Student with an FTE of less than 0.03	HESESFTE < 3
0	Otherwise	Otherwise

## HESENGEXCL8

95. Field indicating students who withdrew before 2 December 2022 or left within 14 days of starting the engagement without completing.

Value	Description	Definition
1	Student who withdrew before 2 December 2022 or left within 14 days of starting the engagement without completing	ENGENDDATE ≠ BLANK and (ENGENDDATE < 2 December 2022 or ENGENDDATE – ENGSTARTDATE < 14) and RSNENGEND ≠ 01, 98
0	Otherwise	Otherwise

## HESENGEXCL

96. This field indicates whether the engagement is included in the HESES22 population. For engagements excluded from the population, HESENGEXCL contains the sum of all applicable values from the table below.

Value	Description	Definition
1	Student not active in academic year	HESENGEXCL1 = 1
2	Incoming exchange student	HESENGEXCL2 = 1
4	Student with a total FTE of less than 3	HESENGEXCL4 = 1
8	Student who withdrew before 2 December 2022 or left within 14 days of starting the engagement without completing	HESENGEXCL8 = 1
0	Otherwise	None of the above

97. This field contains the exclusion reason(s) for the engagement. It is calculated as  $(1 \times \text{HESENGEXCL1}) + (2 \times \text{HESENGEXCL2}) + \dots + (8 \times \text{HESENGEXCL8})$ . The reason(s) which contribute to the exclusion of an engagement can therefore be calculated. For example, if  $\text{HESENGEXCL} = 6$ , by subtracting figures from the above table and starting at the bottom, we see that the student has a total FTE of less than 3 ( $\text{HESENGEXCL4} = 1$ ) and the student is an incoming exchange student ( $\text{HESENGEXCL2} = 1$ ).

## Overall exclusions

### HESEXCL

98. This field is calculated for each SCS and shows the overall inclusion or exclusion of this SCS.

Value	Description	Definition
0	Both the SCS and the engagement to which it belongs are in the HESES22 population	$\text{HESSCSEXCL} = 0$ and $\text{HESENGEXCL} = 0$
1	The SCS is not included in the HESES22 population, but the engagement to which it belongs is in the HESES22 population	$\text{HESSCSEXCL} \neq 0$ and $\text{HESENGEXCL} = 0$
2	The SCS is included in the HESES22 population, but the engagement to which it belongs is not included in the HESES22 population	$\text{HESSCSEXCL} = 0$ and $\text{HESENGEXCL} \neq 0$
4	Neither the SCS nor the engagement to which it belongs is included in the HESES22 population	$\text{HESSCSEXCL} \neq 0$ and $\text{HESENGEXCL} \neq 0$

## Table 4 recreation algorithms

### HESSCSYATYPE

99. This field identifies if the SCS is for an outgoing Erasmus+ or Turing year abroad.

Value	Description	Definition
1	SCS is for an outgoing Erasmus+ or Turing year abroad	At least one occurrence of $\text{MOBSCEMEX} = 03, 05$ across all mobilities in this SCS
0	Otherwise	Otherwise

### HESYATYPE

100. This field identifies Erasmus+ or Turing years abroad.

Value	Description	Definition
ERASMUS	Outgoing Erasmus+ or Turing year abroad	$\text{HESSCSYATYPE} = 1$ for at least one SCS in this engagement with $\text{HESSCSEXCL} = 0$
OTHER	Otherwise	Otherwise

## HESYAPOP

101. This field indicates if the year of engagement is included in the count of years abroad included in Table 4.

Value	Description	Definition
1	Student on year abroad	HESEXCL = 0 and HESLEVEL = UG_45, UG_OTH and HESMODE = FTS, SWOUT and HESTYPE ≠ ISOV and STUDYABROAD = 01
0	Otherwise	Otherwise

## Table 5 recreation algorithms

### HESRESSTAT

102. This field allocates students to the five categories of fundability and residential status.

Value	Description	Definition
HOMEF_UK	OfS-fundable, UK-domiciled	HESTYPE = HOMEF and HESEC = UK
HOMEF_OTH	OfS-fundable, Other	HESTYPE = HOMEF and not above
HOMENF_UK	Non-fundable, UK-domiciled	HESTYPE = HOMENF and HESEC = UK
HOMENF_OTH	Non-fundable, Other	HESTYPE = HOMENF and not above
ISOV	Overseas	HESTYPE = ISOV

### HESBROADLEVEL

103. This field shows the broad level of study in 2022-23 for the purpose of determining new entrant status.

Value	Description	Definition
UG	Undergraduate	HESLEVEL = UG_45, UG_OTH
PGT	Postgraduate taught	HESLEVEL = PGT_UGF, PGT_ML, PGT_OTH
PGR	Postgraduate research	HESLEVEL = PGR

### HESUGPYR2

104. This field indicates how many undergraduate taught years of engagement for a higher education course recognised for OfS funding purposes were associated with the UKPRN and SID/HUSID in the 2020-21 HESA Student/Student Alternative record (HESLEVEL in 2020-21 = UG and HESEXCL in 2020-21 = 0). This field will be blank if no HESA Student/Student Alternative data is available for the provider in 2020-21.

## **HESUGPYR**

105. This field indicates how many undergraduate taught years of engagement for a higher education course recognised for OfS funding purposes were associated with the UKPRN and SID/HUSID in the 2021-22 HESA Student/Student Alternative record (HESLEVEL in 2021-22 = UG and HESEXCL in 2021-22 = 0). This field will be blank if no HESA Student/Student Alternative data is available for the provider in 2021-22.

## **HESPGTPYR2**

106. This field indicates how many postgraduate taught years of engagement for a higher education course recognised for OfS funding purposes were associated with the UKPRN and SID/HUSID in the 2020-21 HESA Student/Student Alternative record (HESLEVEL in 2020-21 = PGT\_ML, PGT\_OTH, PGT\_UGF and HESEXCL in 2020-21 = 0). This field will be blank if no HESA Student/Student Alternative data is available for the provider in 2020-21.

## **HESPGTPYR**

107. This field indicates how many postgraduate taught years of engagement for a higher education course recognised for OfS funding purposes were associated with the UKPRN and SID/HUSID in the 2021-22 HESA Student/Student Alternative record (HESLEVEL in 2021-22 = PGT\_ML, PGT\_OTH, PGT\_UGF and HESEXCL in 2021-22 = 0). This field will be blank if no HESA Student/Student Alternative data is available for the provider in 2021-22.

## **HESPGRPYR2**

108. This field indicates how many postgraduate research taught years of engagement for a higher education course recognised for OfS funding purposes were associated with the UKPRN and SID/HUSID in the 2020-21 HESA Student/Student Alternative record (HESLEVEL in 2020-21 = PGR and HESEXCL in 2020-21 = 0). This field will be blank if no HESA Student/Student Alternative data is available for the provider in 2020-21.

## **HESPGRPYR**

109. This field indicates how many postgraduate research taught years of engagement for a higher education course recognised for OfS funding purposes were associated with the UKPRN and SID/HUSID in the 2021-22 HESA Student/Student Alternative record (HESLEVEL in 2021-22 = PGR and HESEXCL in 2021-22 = 0). This field will be blank if no HESA Student/Student Alternative data is available for the provider in 2021-22.

## **HESNEWENTRANT**

110. This field indicates whether the student is a new entrant.

Value	Description	Definition
1	Has not been active at the same broad level at the registering provider in either of the two previous academic years, linked by UKPRN and SID/HUSID	HESENGSTARTDATE > 31 July 2022 and HESEXCL = 0 and ((HESBROADLEVEL = UG and HESUGPYR2 = 0, BLANK and HESUGPYR = 0, BLANK) or (HESBROADLEVEL = PGT and HESPGTPYR2 = 0, BLANK and HESPGTPYR = 0, BLANK)) or (HESBROADLEVEL = PGR and HESPGRPYR2 = 0, BLANK and HESPGRPYR = 0, BLANK))
0	Otherwise	Otherwise

111. Where a student starts more than one engagement at the same broad level in the same academic year and could be considered as a new entrant for each engagement they will be recorded as a new entrant for only one. If one such engagement has an earlier start date than the others the student will be recorded as a new entrant for that engagement.

## Tables 6a and 6c re-creation algorithms

### HESHEALTHPROP1

112. This field shows the proportion of the student's activity that is allocated to the health profession shown in HESHEALTHPROF1.

Value	Definition
1	(HESHEALTHPROF1 ≠ BLANK and HESHEALTHPROF2 = BLANK) or HESHEALTHPROF1 = DENTHE
0.5	HESHEALTHPROF1 ≠ BLANK and HESHEALTHPROF2 ≠ BLANK, DENTHE and not above
0	Otherwise

### HESHEALTHPROP2

113. This field shows the proportion of the student's activity that is allocated to the health profession shown in HESHEALTHPROF2.

Value	Definition
1	(HESHEALTHPROF1 = BLANK and HESHEALTHPROF2 ≠ BLANK) or HESHEALTHPROF2 = DENTHE
0.5	HESHEALTHPROF1 ≠ BLANK, DENTHE and HESHEALTHPROF2 ≠ BLANK and not above
0	Otherwise

### HESHEALTHYEAR

114. This field identifies whether the student started their course in 2022-23 or another academic year.

Value	Description	Definition
2022-23	Student started in the 2022-23 academic year	HESENGSTARTDATE > 31 July 2022
OTHER	Otherwise	Otherwise

## HESHEALTHPOP

115. This field identifies students that will be included in Tables 6a and 6c. The population is defined in the HESES22 guidance (Annex L, paragraph 1).

Value	Description	Definition
1	Included in Tables 6a and 6c	HESEXCL = 0 and (UKPRN ≠ 10007773 or (UKPRN = 10007773 and PERMADDCOUNTRY ≠ XG, XH, XI)) and QUALCAT = H0003, H0004, H0005, H0010, I0001, J0002, M0002, M0003, M0006, M0015, M0021 and HESLEVEL = UG_45, UG_OTH, PGT_UGF and HESTYPE = HOMEF, HOMENF and (HESHEALTHPROF1 ≠ BLANK or HESHEALTHPROF2 ≠ BLANK)
0	Otherwise	Otherwise

## Table 7 re-creation algorithms

116. Until 2022-23 ILR R14 data is received, the Table 7 re-creation will contain only data submitted to the DDB. This means there may be possible overcounting in the Table 7 re-creation where the Apprenticeship is not at Level 6.

## HESAPPCOURSEAIMPYR

117. We have linked the 2022-23 Student data to 2021-22 Student and Student Alternative data using UKPRN, SID/HUSID and NUMHUS. This field shows the value of COURSEAIM or HESCOURSEAIM\_P1 as found in 2021-22 using this linking method.

## HESAPPRENTICE

118. This field identifies if the student is on a Higher/Degree Apprenticeship in this SCS.

Value	Description	Definition
1	Student is on a Higher/Degree Apprenticeship in this SCS	At least one value of COURSEINITIDX = 004 or at least one value of STUINITIDX = 004
0	Otherwise	Otherwise

## HESAPPPOP

119. This field identifies students that will be included in Table 7. The population is defined in the HESES22 guidance (Annex C, paragraphs 16-17).

Value	Description	Definition
1	Included in Table 7	HESEXCL = 0 and HESMODE ≠ SWOUT and HESTYPE ≠ ISOV and QUALCAT = H0003, H0004, H0005, I0001 and HESLEVEL = UG_45, UG_OTH and HESAPPRENTICE = 1
0	Otherwise	Otherwise

## HESAPPSTARTER

120. This field indicates if the student is part of the Table 7 population and classed as a starter.

Value	Description	Definition
1	Starter in the Table 7 population	HESAPPPOP = 1 and ((HESENGSTARTDATE ≥ 1 August 2022 and HESENGSTARTDATE < 1 August 2023) or (HESENGSTARTDATE < 1 August 2022 and HESAPPCOURSEAIMPYR ≠ H00, H11, H12, H16, H18, H22, H23, H24, I00, I11, I12, I16, BLANK))
0	Otherwise	Otherwise

## Recreating Columns 3, 4 and 4a

### HESNCOMPLEVEL\_Y

121. These fields identify the level at which HESNCOMPRATE\_Y (where Y is each price group) is calculated for the year of engagement. For the purpose of this calculation, 'Undergraduate course at Level 4 or 5' and 'Other undergraduate course' are joined to form one undergraduate level. This is so years of engagement included in Tables 6a and 6c can be treated correctly.

Value	Description	Definition
BLANK	There is no activity in the price group for this engagement in the 2022-23 Student data.	HESPRGY = 0
BLANK	There is activity in the price group for this engagement in the 2022-23 Student data, but the year of engagement is included in Tables 6a and 6c of the HESES22 recreation.	HESPRGY > 0 and HESHEALTHPOP = 1
1	More than 9 years of engagement in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) in HESES22 for this provider with the same mode, level, residential and fundability status, price group and length, and not above.	HESPRGY > 0 and HESHEALTHPOP = 0



Value	Description	Definition
2	More than 9 years of engagement in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) in HESES22 for this provider with the same mode, level, residential and fundability status, and price group, and not above.	HESPRGY > 0 and HESHEALTHPOP = 0
3	More than 9 years of engagement in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) in HESES22 for this provider with the same mode and level, and not above.	HESPRGY > 0 and HESHEALTHPOP = 0
4	More than 9 years of engagement in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) in HESES22 for this provider with the same mode, and not above.	HESPRGY > 0 and HESHEALTHPOP = 0
5	Otherwise	HESPRGY > 0 and HESHEALTHPOP = 0

## HESNCOMPRATE\_Y

122. These fields show an estimate of the likelihood that the activity in each price group (Y = A, B, C11, C12, C2, D) was not completed. Each estimate is based on a non-completion rate taken from HESES22 at the appropriate level as identified in HESNCOMPLEVEL\_Y. This rate is calculated as follows:  $(-1 \times \text{Column 3}) \div (\text{Column 1} + \text{Column 2})$ . For the purpose of this calculation, 'Undergraduate course at Level 4 or 5' and 'Other undergraduate course' are joined to form one undergraduate level. This is so years of engagement included in Tables 6a and 6c can be treated correctly.

Value	Definition
BLANK	HESNCOMPLEVEL_Y = BLANK
Calculated from years of engagement in Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) of HESES22 for this provider with the same mode, level, residential and fundability status, price group and length.	HESNCOMPLEVEL_Y = 1
Calculated from years of engagement in Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) of HESES22 for this provider with the same mode, level, residential and fundability status, and price group.	HESNCOMPLEVEL_Y = 2
Calculated from years of engagement in Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) of HESES22 for this provider with the same mode and level.	HESNCOMPLEVEL_Y = 3
Calculated from years of engagement in Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) of HESES22 for this provider with the same mode.	HESNCOMPLEVEL_Y = 4
Calculated from years of engagement in Tables 1, 2 and 3 (excluding those also included in Tables 6a and 6c) of HESES22 for this provider.	HESNCOMPLEVEL_Y = 5

## HESNCOMPLEVEL\_PROFZ

123. These fields identify the level at which HESNCOMPRATE\_PROFZ (Z = 1, 2) is calculated for the year of engagement.

Value	Description	Definition
BLANK	The year of engagement is not included in Tables 6a and 6c of the HESES22 recreation.	HESHEALTHPOP = 0
BLANK	The year of engagement is included in Tables 6a and 6c of the HESES22 recreation, but there is no activity in the profession for this engagement in the 2022-23 Student data.	HESHEALTHPOP = 1 and HESHEALTHPROPZ = 0
1	More than 9 years of engagement in Columns 1 and 2 of Tables 6a and 6c in HESES22 for this provider with the same mode, profession, residential and fundability status, and level, and not above.	HESHEALTHPOP = 1 and HESHEALTHPROPZ ≠ 0
2	More than 9 years of engagement in Columns 1 and 2 of Tables 6a and 6c in HESES22 for this provider with the same mode, profession, and residential and fundability status, and not above.	HESHEALTHPOP = 1 and HESHEALTHPROPZ ≠ 0
3	More than 9 years of engagement in Columns 1 and 2 of Tables 6a and 6c in HESES22 for this provider with the same mode and profession, and not above.	HESHEALTHPOP = 1 and HESHEALTHPROPZ ≠ 0
4	More than 9 years of engagement in Columns 1 and 2 of Tables 6a and 6c in HESES22 for this provider with the same mode, and not above.	HESHEALTHPOP = 1 and HESHEALTHPROPZ ≠ 0
5	Otherwise	HESHEALTHPOP = 1 and HESHEALTHPROPZ ≠ 0

## HESNCOMPRATE\_PROFZ

124. These fields show an estimate of the likelihood that the activity in each health profession (Z = 1, 2) was not completed. Each estimate is based on a non-completion rate taken from HESES22 at the appropriate level as identified in HESNCOMPLEVEL\_PROFZ. This rate is calculated as follows:  $(-1 \times \text{Column 3}) \div (\text{Column 1} + \text{Column 2})$ .

Value	Definition
BLANK	HESNCOMPLEVEL_PROFZ = BLANK
Calculated from years of engagement in Tables 6a and 6c of HESES22 for this provider with the same mode, profession, residential and fundability status, and level.	HESNCOMPLEVEL_PROFZ = 1
Calculated from years of engagement in Tables 6a and 6c of HESES22 for this provider with the same mode, profession, and residential and fundability status.	HESNCOMPLEVEL_PROFZ = 2

Value	Definition
Calculated from years of engagement in Tables 6a and 6c of HESES22 for this provider with the same mode and profession.	HESNCOMPLEVEL_PROFZ = 3
Calculated from years of engagement in Tables 6a and 6c of HESES22 for this provider with the same mode.	HESNCOMPLEVEL_PROFZ = 4
Calculated from years of engagement in Tables 6a and 6c of HESES22 for this provider.	HESNCOMPLEVEL_PROFZ = 5

### HESCOL3\_PROFZ

125. These fields show the contribution of the activity in each health profession (Z = 1, 2) to Column 3 of Tables 1, 3 and 7, and Tables 6a and 6c of the HESES22 recreation. Note that HESCOL3\_PROF1 is the contribution for HESHEALTHPROF1, and HESCOL3\_PROF2 is the contribution for HESHEALTHPROF2.

Value	Description	Definition
BLANK	The year of engagement is not included in Tables 6a and 6c of the HESES22 recreation.	HESHEALTHPOP = 0
0	The year of engagement is included in Tables 6a and 6c of the HESES22 recreation, but a profession is not recorded, or there is no activity in the profession.	HESHEALTHPOP = 1 and (HESHEALTHPROFZ = BLANK or HESNCOMPRATE_PROFZ = BLANK)
HESHEALTHPROPZ × HESNCOMPRATE_PROFZ	The contribution of the activity in the profession to Column 3 of Tables 1, 3 and 7, and Tables 6a and 6c of the HESES22 recreation.	HESNCOMPRATE_PROFZ ≠ BLANK

### HESCOL3\_Y

126. These fields show the contribution of the activity in each price group (Y = A, B, C11, C12, C2, D) to Column 3 of Tables 1-3 and 7 of the HESES22 recreation. (For years of engagement included in Tables 6a and 6c, they also show the contribution of the activity in each price group to Column 3 of Tables 6a and 6c of the HESES22 recreation).

Value	Description	Definition
0	There is no activity in the price group for this engagement.	HESPRGY = 0
HESPRGY × HESNCOMPRATE_Y	The contribution of the activity in the price group to Column 3 of Tables 1-3 and 7 of the HESES22 recreation, where the year of engagement is not included in Tables 6a and 6c of the HESES22 recreation.	HESPRGY > 0 and HESHEALTHPOP = 0

Value	Description	Definition
HESCOL3_PROF1 + HESCOL3_PROF2	The contribution of the activity in the price group to Column 3 of Tables 1, 3 and 7 of the HESES22 recreation, where the year of engagement is included in Tables 6a and 6c of the HESES22 recreation.	HESPRGY > 0 and HESHEALTHPOP = 1

## HESCOL3

127. This field shows the contribution of the year of engagement to Column 3 of Tables 1-3 and 7 of the HESES22 re-creation. It is the sum of HESCOL3\_A, HESCOL3\_B, HESCOL3\_C11, HESCOL3\_C12, HESCOL3\_C2 and HESCOL3\_D.

## HESCOL4\_PROFZ

128. These fields show the contribution of the activity in each health profession (Z = 1, 2) to Column 4 of Tables 1, 3 and 7, and Tables 6a and 6c of the HESES22 recreation. Note that HESCOL3\_PROF1 is the contribution for HESHEALTHPROF1, and HESCOL3\_PROF2 is the contribution for HESHEALTHPROF2.

Value	Description	Definition
BLANK	The year of engagement is not included in Tables 6a and 6c of the HESES22 recreation.	HESHEALTHPOP = 0
0	The year of engagement is included in Tables 6a and 6c of the HESES22 recreation, but a profession is not recorded, or there is no activity in the profession.	HESHEALTHPOP = 1 and (HESHEALTHPROFZ = BLANK or HESNCOMPRATE_PROFZ = BLANK)
HESHEALTHPROPZ × (1 – HESNCOMPRATE_PROFZ)	The contribution of the activity in the profession to Column 4 of Tables 1, 3 and 7, and Tables 6a and 6c of the HESES22 recreation.	HESNCOMPRATE_PROFZ ≠ BLANK

## HESCOL4\_Y

129. These fields show the contribution of the activity in each price group (Y = A, B, C11, C12, C2, D) to Column 4 of Tables 1-3 and 7 of the HESES22 recreation. (For years of engagement included in Tables 6a and 6c, they also show the contribution of the activity in each price group to Column 4 of Tables 6a and 6c of the HESES22 recreation.)

Value	Description	Definition
0	There is no activity in the price group for this engagement.	HESPRGY = 0

Value	Description	Definition
HESPRGY × (1 – HESNCOMPRATE_Y)	The contribution of the activity in the price group to Column 4 of Tables 1-3 and 7 of the HESES22 recreation, where the year of engagement is not included in Tables 6a and 6c of the HESES22 recreation.	HESPRGY > 0 and HESHEALTHPOP = 0
HESCOL4_PROF1 + HESCOL4_PROF2	The contribution of the activity in the price group to Column 4 of Tables 1 and 3 and 7 of the HESES22 recreation, where the year of engagement is included in Tables 6a and 6c of the HESES22 recreation.	HESPRGY > 0 and HESHEALTHPOP = 1

## HESCOL4

130. This field shows the contribution of the year of engagement to Column 4 of Tables 1-3 and 7 of the HESES22 re-creation. It is the sum of HESCOL4\_A, HESCOL4\_B, HESCOL4\_C11, HESCOL4\_C12, HESCOL4\_C2 and HESCOL4\_D.

## HESFTEA, HESFTEB, HESFTEC11, HESFTEC12, HESFTEC2, HESFTED

131. The estimated FTE of the activity assigned to each price group is contained in the six FTE fields as shown in the table below. These fields are calculated by multiplying the contribution of the activity in the price group to Column 4 of Tables 1-3 and 7 of the HESES22 recreation (HESCOL4\_A, HESCOL4\_B, HESCOL4\_C11, HESCOL4\_C12, HESCOL4\_C2, HESCOL4\_D).

Field	Definition
HESFTEA	HESCOL4_A x HESESFTE
HESFTEB	HESCOL4_B x HESESFTE
HESFTEC11	HESCOL4_C11 x HESESFTE
HESFTEC12	HESCOL4_C12 x HESESFTE
HESFTEC2	HESCOL4_C2 x HESESFTE
HESFTED	HESCOL4_D x HESESFTE

## HESCOL4A

132. This field is the recreated HESES22 FTE for the year of engagement. For part-time years of engagement, this is used to populate Column 4a of Tables 3 and 7. It is calculated by multiplying the contribution of the year of engagement to Column 4 of Tables 1-3 and 7 of the HESES22 recreation (HESCOL4) by HESESFTE, and then dividing by 100.



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