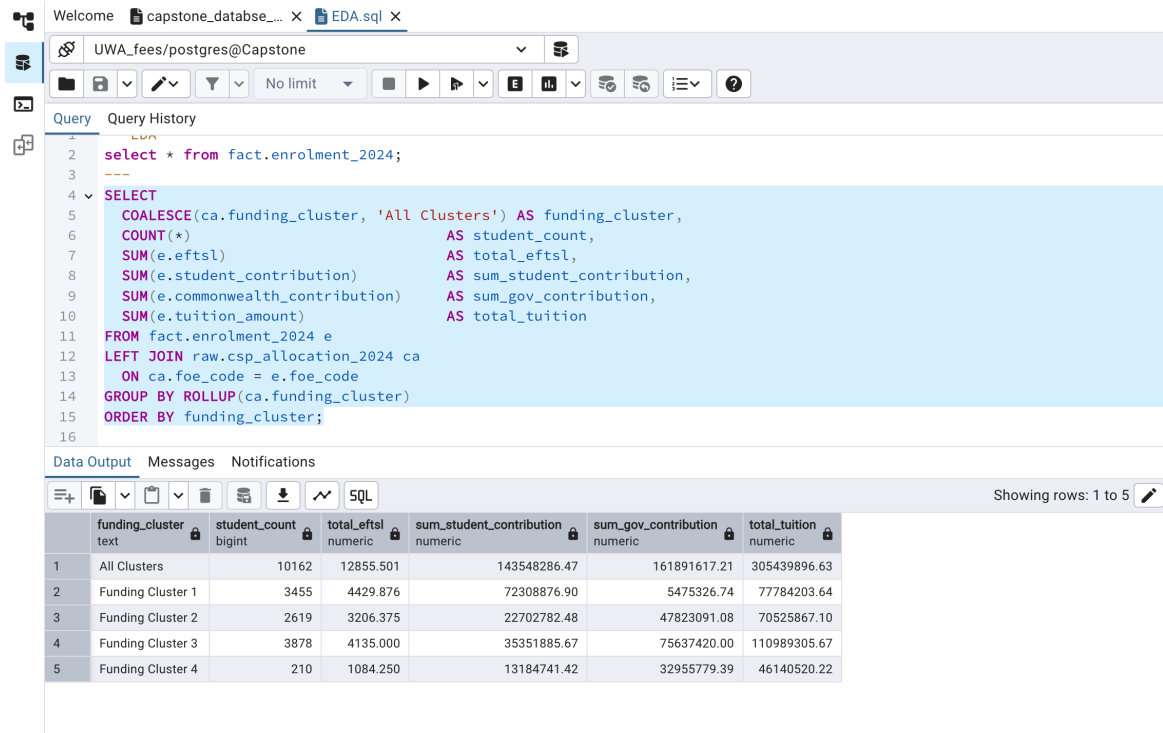


Version 1.0 28th Sep edited by Fei

Background research

1. Total EFTSL across all funding cluster

Record = 10162 and Total EFTSL= 12855.501



The screenshot shows a SQL IDE interface with a query editor and a results table. The query is as follows:

```
select * from fact.enrolment_2024;
--
SELECT
  COALESCE(ca.funding_cluster, 'All Clusters') AS funding_cluster,
  COUNT(*) AS student_count,
  SUM(e.eftsl) AS total_eftsl,
  SUM(e.student_contribution) AS sum_student_contribution,
  SUM(e.commonwealth_contribution) AS sum_gov_contribution,
  SUM(e.tuition_amount) AS total_tuition
FROM fact.enrolment_2024 e
LEFT JOIN raw.csp_allocation_2024 ca
  ON ca.foe_code = e.foe_code
GROUP BY ROLLUP(ca.funding_cluster)
ORDER BY funding_cluster;
```

The results table displays the following data:

	funding_cluster text	student_count bigint	total_eftsl numeric	sum_student_contribution numeric	sum_gov_contribution numeric	total_tuition numeric
1	All Clusters	10162	12855.501	143548286.47	161891617.21	305439896.63
2	Funding Cluster 1	3455	4429.876	72308876.90	5475326.74	77784203.64
3	Funding Cluster 2	2619	3206.375	22702782.48	47823091.08	70525867.10
4	Funding Cluster 3	3878	4135.000	35351885.67	75637420.00	110989305.67
5	Funding Cluster 4	210	1084.250	13184741.42	32955779.39	46140520.22

Student with special cases

Record = 366 and Total EFTSL= 691.375

```

17 --- checking the missing special case---
18
19 SELECT r.*
20 FROM raw.student_enrolments_2024 r
21 LEFT JOIN dim.foe d ON r.unit_primary_foe_code = d.foe_code
22 WHERE d.foe_code IS NULL;
23
24 --checking the missing special case with total eftsl --
25 SELECT
26     COUNT(*) AS n_rows,
27     SUM(r.eftsl_2024) AS total_eftsl
28 FROM raw.student_enrolments_2024 r
29 LEFT JOIN dim.foe d
30     ON r.unit_primary_foe_code = d.foe_code
31 WHERE d.foe_code IS NULL;

```

Data Output Messages Notifications

Showing rows: 1 to 366 Page No: 1 of 1

row_id [PK] bigint	course_type_broad_name text	funding_group_name text	unit_level text	unit_primary_foe_code text	unit_primary_foe_detailed_name text	unit_primary_foe_narrow_name text	unit_primary_foe_full_name text
1	29	Undergraduate	Domestic - C'wealth Supported	4	090701	Psychology	Behavioural Science
2	42	Undergraduate	Domestic - C'wealth Supported	4	090701	Psychology	Behavioural Science
3	43	Undergraduate	Domestic - C'wealth Supported	4	090701	Psychology	Behavioural Science
4	44	Undergraduate	Domestic - C'wealth Supported	4	090701	Psychology	Behavioural Science
5	51	Undergraduate	Domestic - C'wealth Supported	4	090701	Psychology	Behavioural Science
6	93	Undergraduate	Domestic - C'wealth Supported	5	090501	Social Work	Human Welfare Studies And Services
7	98	Undergraduate	Domestic - C'wealth Supported	4	090701	Psychology	Behavioural Science
8	116	Undergraduate	Domestic - C'wealth Supported	4	090701	Psychology	Behavioural Science
9	127	Undergraduate	Domestic - C'wealth Supported	4	090701	Psychology	Behavioural Science
10	128	Undergraduate	Domestic - C'wealth Supported	4	090701	Psychology	Behavioural Science

Total rows: 366 Query complete 00:00:00.118 LF Ln 19, C

```

24 --checking the missing special case with total eftsl --
25 SELECT
26     COUNT(*) AS n_rows,
27     SUM(r.eftsl_2024) AS total_eftsl
28 FROM raw.student_enrolments_2024 r
29 LEFT JOIN dim.foe d
30     ON r.unit_primary_foe_code = d.foe_code
31 WHERE d.foe_code IS NULL;
32
33
34 ---checking the overload student ---
35 SELECT
36     COUNT(*) AS student_count_over3,

```

Data Output Messages Notifications

n_rows bigint	total_eftsl numeric
366	691.375

In summary:

Total EFTSL= 12855.501+691.375=13546.88

The record in 2024 financial report: Total EFTSL for CSP = 13548

Student enrolments

by broad course type

	2020	2021	2022	2023	2024
Higher degree research	2,113	2,004	1,947	1,894	1,803
	8.0%	7.2%	6.9%	6.4%	5.4%
Postgraduate coursework	8,054	8,322	8,223	8,740	10,974
	30.6%	29.8%	29.3%	29.7%	33.0%
Undergraduate	16,115	17,646	17,901	18,792	20,433
	61.3%	63.1%	63.8%	63.9%	61.5%
Grand total	26,282	27,972	28,071	29,426	33,210

Notes: Students enrolled in multiple courses are counted multiple times.

Student load EFTSL

by funding source

	2020	2021	2022	2023	2024
Domestic - commonwealth supported	12,682	13,943	13,793	13,435	13,548
	67.8%	70.6%	70.5%	66.0%	59.7%
Domestic - fee-paying	721	614	608	632	616
	3.9%	3.1%	3.1%	3.1%	2.7%
Domestic - non-award and others	61	76	72	129	92
	0.3%	0.4%	0.4%	0.6%	0.4%
Domestic - research training program	881	926	880	763	749
	4.7%	4.7%	4.5%	3.8%	3.3%
International - offshore	60	43	24	11	7
	0.3%	0.2%	0.1%	0.1%	0.0%
International - onshore	4,091	3,975	4,057	5,317	7,650
	21.9%	20.1%	20.7%	26.1%	33.7%
International - research training program	222	181	126	57	33
	1.2%	0.9%	0.6%	0.3%	0.1%
Grand total	18,717	19,759	19,560	20,344	22,695

Notes: Non-award category includes unknown funding group. Discrepancies between the sums of component items and totals are due to rounding.

Let’s go back to the total government contribution:

4 SELECT

5 COALESCE(ca.funding_cluster, 'All Clusters') AS funding_cluster,

6 COUNT(*) AS student_count,

7 SUM(e.eftsl) AS total_eftsl,

8 SUM(e.student_contribution) AS sum_student_contribution,

9 SUM(e.commonwealth_contribution) AS sum_gov_contribution,

10 SUM(e.tuition_amount) AS total_tuition

11 FROM fact.enrolment_2024 e

12 LEFT JOIN raw.csp_allocation_2024 ca

13 ON ca.foe_code = e.foe_code

14 GROUP BY ROLLUP(ca.funding_cluster)

15 ORDER BY funding_cluster;

16

17 --- checking the missing special case---

18

19 SELECT * FROM

Data Output

Messages

Notifications

SQL

funding_cluster

student_count

total_eftsl

sum_student_contribution

sum_gov_contribution

total_tuition

text

bigint

numeric

numeric

numeric

numeric

1 All Clusters

10162

12855.501

143548286.47

161891617.21

305439896.63

2 Funding Cluster 1

3455

4429.876

72308876.90

5475326.74

77784203.64

3 Funding Cluster 2

2619

3206.375

22702782.48

47823091.08

70525867.10

4 Funding Cluster 3

3878

4135.000

35351885.67

75637420.00

110989305.67

5 Funding Cluster 4

210

1084.250

13184741.42

32955779.39

46140520.22

- Total government contribution = 161891617.21

And in government official document:

Table 1: Summary of indicative maximum funding amounts

Funding	2024	2025
1. Teaching		
Higher education courses (MBGA funding envelope)	\$147,201,380	\$155,932,583

It's quite close!

How to Correctly Interpret 2024 UWA Student Data Table

Let's break down in detail:

Query History

```

106      WHERE e.eftsl > 3
107    )
108    SELECT b.foe_code,
109           d.foe_name,
110           c.funding_cluster,
111           COUNT(*) AS n_rows,
112           SUM(b.gov_csp) AS total_gov_csp,
113           AVG(b.gov_csp) AS avg_gov_csp_per_student,
114           AVG(b.eftsl) AS avg_eftsl
115 FROM base b
116 LEFT JOIN dim.foe d ON b.foe_code = d.foe_code
117 LEFT JOIN raw.csp_allocation_2024 c ON b.foe_code = c.foe_code
118 GROUP BY b.foe_code, d.foe_name, c.funding_cluster
119 ORDER BY total_gov_csp DESC
120 LIMIT 10;
121

```

Data Output Messages Notifications

	foe_code character varying (10)	foe_name text	funding_cluster text	n_rows bigint	total_gov_csp numeric	avg_gov_csp_per_student numeric	avg_eftsl numeric
1	060100	Medical Studies	Funding Cluster 4	15	19050066.27	1270004.4180000000000	41.7833333333333333
2	010913	Human Biology	Funding Cluster 3	41	7410546.50	180745.036585365854	9.8810975609756098
3	010101	Mathematics	Funding Cluster 2	33	6238198.84	189036.328484848485	12.6742424242424242
4	060701	Dentistry	Funding Cluster 4	26	5015175.10	192891.3500000000000	6.3461538461538462
5	039999	Engineering and Related Technologies, n.e.c.	Funding Cluster 3	13	3724708.50	286516.038461538462	15.6634615384615385
6	030701	Mechanical Engineering	Funding Cluster 3	18	2913001.00	161833.388888888889	8.8472222222222222
7	010103	Statistics	Funding Cluster 2	17	2708936.90	159349.229411764706	10.6838235294117647
8	040101	Architecture	Funding Cluster 2	22	2539278.79	115421.763181818182	7.7386363636363636
9	010500	Chemical Sciences	Funding Cluster 3	14	2377960.00	169854.285714285714	9.2857142857142857
10	010999	Biological Sciences, n.e.c.	Funding Cluster 3	15	2332230.00	155482.0000000000000	8.5000000000000000

	A	B	C	D	E	F	G	H	I	J	K
	UWACourseID	CourseTypeBroadName	UWAUnitID	FundingGroup	UnitLevelCode	UnitLevelName	UnitPrimaryFOEDetailedName	UnitPrimaryFOENarrow	UnitPrimaryFOECLT	UnitPrimaryFOEBroadName	2024 EFTSL
1177	2951	Undergraduate	213932	Domestic - C-wealth Supported	0	Other	Medical Studies	Medical Studies	60100	Health	0.25
5047	2978	Undergraduate	213932	Domestic - C-wealth Supported	0	Other	Medical Studies	Medical Studies	60100	Health	0.25
5068	2978	Undergraduate	214938	Domestic - C-wealth Supported	2	Level Two	Medical Studies	Medical Studies	60100	Health	12.875
15786	4945	Postgraduate Coursework	239223	Domestic - C-wealth Supported	5	Level Five	Medical Studies	Medical Studies	60100	Health	5.25
15788	4945	Postgraduate Coursework	239439	Domestic - C-wealth Supported	4	Level Four	Medical Studies	Medical Studies	60100	Health	0.5
15789	4945	Postgraduate Coursework	239451	Domestic - C-wealth Supported	5	Level Five	Medical Studies	Medical Studies	60100	Health	7
15791	4945	Postgraduate Coursework	240029	Domestic - C-wealth Supported	5	Level Five	Medical Studies	Medical Studies	60100	Health	10.5
15794	4945	Postgraduate Coursework	240555	Domestic - C-wealth Supported	5	Level Five	Medical Studies	Medical Studies	60100	Health	7
15796	4945	Postgraduate Coursework	240587	Domestic - C-wealth Supported	4	Level Four	Medical Studies	Medical Studies	60100	Health	0.5
15819	4945	Postgraduate Coursework	243807	Domestic - C-wealth Supported	5	Level Five	Medical Studies	Medical Studies	60100	Health	5.25
15830	4951	Postgraduate Coursework	239223	Domestic - C-wealth Supported	5	Level Five	Medical Studies	Medical Studies	60100	Health	46.125
15832	4951	Postgraduate Coursework	239439	Domestic - C-wealth Supported	4	Level Four	Medical Studies	Medical Studies	60100	Health	96.5
15834	4951	Postgraduate Coursework	239451	Domestic - C-wealth Supported	5	Level Five	Medical Studies	Medical Studies	60100	Health	36.5
15836	4951	Postgraduate Coursework	240029	Domestic - C-wealth Supported	5	Level Five	Medical Studies	Medical Studies	60100	Health	52.125
15838	4951	Postgraduate Coursework	240072	Domestic - C-wealth Supported	3	Level Three	Medical Studies	Medical Studies	60100	Health	97
15840	4951	Postgraduate Coursework	240555	Domestic - C-wealth Supported	5	Level Five	Medical Studies	Medical Studies	60100	Health	34.75
15842	4951	Postgraduate Coursework	240586	Domestic - C-wealth Supported	3	Level Three	Medical Studies	Medical Studies	60100	Health	92.5
15844	4951	Postgraduate Coursework	240587	Domestic - C-wealth Supported	4	Level Four	Medical Studies	Medical Studies	60100	Health	86.5
15870	4951	Postgraduate Coursework	243807	Domestic - C-wealth Supported	5	Level Five	Medical Studies	Medical Studies	60100	Health	46.875

- This table is **not student-level data**.
- Each row represents a **combination of (UWACourseID × UWAUnitID × FOE Code × Level)**.
 - **UWACourseID** → the degree program (e.g., Bachelor of Medical Studies)
 - **UWAUnitID** → the unit/course (e.g., a Medical Studies unit)
 - **FOE Code** → field of education code
 - **UnitLevelCode/Name** → the unit level (e.g., Level 4, Level 5)

So, a single course may appear as dozens or even hundreds of students.

So that can explain why unit level code= 4 or 5 here

2. Why the same Unit has many rows

- A single unit can appear multiple times because:
 - It belongs to different degree programs (different UWACourseIDs).
 - It is split across different FOE codes.
 - It is separated by unit levels.

So: **1 Medical Studies unit ≠ 1 row**, it is broken into many rows.

3. What EFTSL means

- **EFTSL = Equivalent Full-Time Student Load**
- It does not represent headcount; it represents “student load.”
 - 1 EFTSL ≈ one student’s full-time study load for a year.
 - 0.25 EFTSL → could mean:
 - 2 students each at 12.5% load, or
 - more students splitting that load.

This means you **cannot directly interpret the row count as student numbers**, nor can you say “this row has 2 students.”

4. How to calculate correctly

total scale of a unit/discipline: SUM(EFTSL)

Example:

- Medical Studies may only show ~15 rows in the dataset, but when you **SUM their EFTSL**, the total might be **hundreds or thousands**, which reflects the true scale.