

Assignment two

Sample Outputs

Last updated: Sunday 23rd October 10:23pm

Most recent changes are shown in red ... older changes are shown in brown.

[\[Assignment Spec\]](#) [\[Database\]](#) [\[Schema Summary\]](#) [\[Testing\]](#) [\[Samples\]](#)

A sample session with the MyMyUNSW database into which have been loaded (hopefully correct) attempts at the Assignment 2 questions. Let me know ASAP if you think any of these are incorrect, although the *real* arbiter of correctness is whatever is in the expected_qx tables in [check.sql](#)

Note (before anyone asks the traditional question that is asked every year): the order of tuples in the results does not matter. Formatting *does* matter; extraneous spaces or incorrect upper/lower-case will cause your "solution" to be marked incorrect.

```
$ psql ass2
psql (13.8 (Debian 13.8-0+deb11u1))
Type "help" for help.

ass2=# \i ass2.sql
CREATE VIEW
... etc. etc. etc. ...
CREATE FUNCTION
ass2=# select * from q1_a order by starting;
```

name	school	starting
Stephen Frenkel	Organisation and Management	1975-07-14
Anthony Dooley	Mathematics & Statistics	1980-11-03
David Lovell	Humanities and Social Sciences (ADFA)	1983-12-16
Christopher Rizos	Surveying and Spatial Information Systems	1984-01-03
Philip Mitchell	Psychiatry	1985-01-07
Roger Simnett	Accounting	1987-02-02
Nicholas Hawkins	Medical Sciences	1989-01-09
Brendan Edgeworth	School of Law	1989-02-01
Ross Harley	Media Arts	1989-02-13
Christopher Taylor	Business Law and Taxation	1989-07-17
Sylvia Ross	Art - COFA	1990-01-01
David Cohen	Biological, Earth and Environmental Sciences	1990-01-29
Michael Frater	Information Technology and Electrical Engineering (ADF	1991-02-28
Richard Newbury	Physics	1991-03-01
Kim Snepvangers	Art History & Art Education (COFA)	1993-02-02
David Waite	Civil and Environmental Engineering	1993-07-05
Paul Brown	History and Philosophy	1994-01-04
Richard Corkish	Photovoltaic and Renewable Engineering	1994-04-01
Kevin Fox	Economics	1994-07-01
Michael Chapman	Women's and Children's Health	1994-10-10
Bruce Hebblewhite	Mining Engineering	1995-04-01
Fiona Stapleton	Optometry and Vision Science	1995-09-25
Rogelia Pe-Pua	Social Sciences and International Studies	1996-02-12
Paul Patterson	Marketing	1996-09-02
Liz Williamson	Design Studies - COFA	1997-01-02
Barbara Messerle	Chemistry	1999-03-01
Anne Simmons	Graduate School of Biomedical Engineering	1999-06-28
Eliathamby Ambikairajah	Electrical Engineering & Telecommunications	1999-08-25
Margaret McKerchar	Australian School of Taxation (ATAX)	2000-01-28
Andrew Killcross	Psychology	2001-07-01
Brian Lees	Physical, Environmental and Mathematical Sciences (ADF	2002-06-26
Michael Hess	Business (ADFA)	2004-05-21
John Ballard	Biotechnology and Biomolecular Sciences	2005-02-01
Chandini MacIntyre	Public Health & Community Medicine	2008-03-26
Maurice Pagnucco	Computer Science and Engineering	2010-07-01

```
(35 rows)

ass2=# select * from q1_b;
```

status	name	school	starting
Longest serving	Stephen Frenkel	Organisation and Management	1975-07-14
Most recent	Maurice Pagnucco	Computer Science and Engineering	2010-07-01

(2 rows)

```
ass2=# select * from q2;
subject_code | use_rate
```

```
-----+-----
CHEM1011    |      14
ECON1202    |      14
```

(2 rows)

```
ass2=# select * from q3;
unsw_id | student_name
```

```
-----+-----
2272011 | Dominic Barcz
2277008 | Daniel De Hoop
2248083 | Robert Torazzi
3072343 | Dounia Zanich
3011341 | Maria Satouris
3082284 | Thomas Chiofalo
3033560 | Hyeon Jinkyu
3096847 | Boon Clements
```

...

...

(15 rows)

```
ass2=# \timing
```

Timing is on.

```
ass2=# select * from q4;
course_id
```

```
-----
58391
```

(1 row)

Time: 385.885 ms

```
ass2=# select * from q5;
term | nstudes | fte
```

```
-----+-----+-----
00s1 | 5527 | 4990.3
00s2 | 5790 | 5219.3
01s1 | 6323 | 5454.3
01s2 | 6350 | 5511.0
02s1 | 6813 | 5816.4
02s2 | 7105 | 5988.3
03s1 | 7119 | 5994.9
03s2 | 6836 | 5742.7
04s1 | 6897 | 5734.5
04s2 | 6581 | 5486.1
05s1 | 6549 | 5305.0
05s2 | 6174 | 4954.5
06s1 | 6077 | 4905.4
06s2 | 5872 | 4750.8
07s1 | 5990 | 4847.4
07s2 | 5854 | 4741.2
08s1 | 6117 | 4980.9
08s2 | 6030 | 4927.2
09s1 | 6724 | 5512.6
09s2 | 6829 | 5566.4
10s1 | 7362 | 6128.7
10s2 | 7279 | 6094.9
```

(22 rows)

Time: 1458.437 ms

```
ass2=# select * from q6 order by subject;
```

```
subject | offerings
-----+-----
FINS5511 Corporate Finance | 34
GEND1204 Studies in Painting | 32
GEND4208 Working with Ceramics | 32
GEND4209 Working with Jewellery | 32
```

GEND4210 Textiles and Fashion	31
MDCN0001 Medicine:Short Course (SWSAHS)	31
MDCN0002 Medicine: Short Course (St G)	31
MDCN0003 Medicine: Short Course (St V)	32

(8 rows)

Time: 2584.434 ms

ass2=# select * from q7('radio mic');

room	facility
Matthews Theatre A	Radio microphone
Matthews Theatre B	Radio microphone
Matthews Theatre C	Radio microphone
Matthews Theatre D	Radio microphone
Physics Theatre	Radio microphone
Webster Theatre A	Radio microphone
Webster Theatre B	Radio microphone
Red Centre Theatre	Radio microphone
Rex Vowels Theatre	Radio microphone
Macauley Theatre	Radio microphone
Biomedical Lecture Theatre A	Radio microphone
Biomedical Lecture Theatre B	Radio microphone
Biomedical Lecture Theatre C	Radio microphone
Biomedical Lecture Theatre D	Radio microphone
Central Lecture Block Theatre 7	Radio microphone
Rupert Myers Theatre	Radio microphone
Murphy Theatre	Radio microphone
Smith Theatre	Radio microphone
Applied Science Theatre 1	Radio microphone
MAT-310	Radio microphone
OMB-112	Radio microphone
Sir John Clancy Auditorium	Radio microphone

(22 rows)

Time: 2.098 ms

ass2=# select * from q7('Board');

room	facility
Matthews Theatre A	Blackboard
Matthews Theatre B	Blackboard
Matthews Theatre C	Blackboard
Matthews Theatre D	Blackboard
QUAD-1042	Blackboard
Electrical Engineering G24	Blackboard
Electrical Engineering G25	Blackboard
Physics Theatre	Blackboard
Webster Theatre A	Blackboard
Webster Theatre B	Blackboard
Nyholm Theatre	Blackboard
Red Centre Theatre	Blackboard
Rex Vowels Theatre	Blackboard
Macauley Theatre	Blackboard
Biomedical Lecture Theatre A	Blackboard
Biomedical Lecture Theatre B	Blackboard
Biomedical Lecture Theatre C	Blackboard
Biomedical Lecture Theatre D	Blackboard
Biomedical Lecture Theatre E	Blackboard
Biomedical Lecture Theatre F	Blackboard
Central Lecture Block Theatre 2	Blackboard
Central Lecture Block Theatre 3	Blackboard
Central Lecture Block Theatre 4	Blackboard
Central Lecture Block Theatre 6	Blackboard
Central Lecture Block Theatre 7	Blackboard
Central Lecture Block Theatre 8	Blackboard
Dwyer Theatre	Blackboard
Mellor Theatre	Blackboard
Murphy Theatre	Blackboard
Smith Theatre	Blackboard
Applied Science Theatre 1	Blackboard

QUAD-1049	Blackboard
QUAD-G040	Blackboard
QUAD-G048	Blackboard
QUAD-G055	Blackboard
AS-301	Blackboard
AS-G05	Blackboard
B11A-101	Blackboard
B9-160	Blackboard
B9-170	Blackboard
CE-102	Blackboard
CE-713	Blackboard
CE-G6	Blackboard
CE-G8	Blackboard
CHEM-611	Blackboard
CHEM-613	Blackboard
CHEM-614	Blackboard
EE-218	Blackboard
EE-219	Blackboard
EE-220	Blackboard
EE-221	Blackboard
EE-222	Blackboard
EE-418	Blackboard
JG-LG21	Blackboard
MAT-102	Blackboard
MAT-1021	Blackboard
MAT-1024	Blackboard
MAT-104	Blackboard
MAT-1216	Blackboard
MAT-1226	Blackboard
MAT-123	Blackboard
MAT-130	Blackboard
MAT-301	Blackboard
MAT-302	Blackboard
MAT-303	Blackboard
MAT-306	Blackboard
MAT-307	Blackboard
MAT-308	Blackboard
MAT-309	Blackboard
MAT-310	Blackboard
MAT-311	Blackboard
MAT-312	Blackboard
MAT-313	Blackboard
MAT-921	Blackboard
MAT-924	Blackboard
MAT-929	Blackboard
MB-307	Blackboard
MB-308B	Blackboard
MB-G3	Blackboard
MB-G4	Blackboard
MB-G5	Blackboard
MB-G7	Blackboard
MB-LG30	Blackboard
OMB-112	Blackboard
OMB-113	Blackboard
OMB-114	Blackboard
OMB-115	Blackboard
OMB-116	Blackboard
OMB-117	Blackboard
OMB-145A	Blackboard
OMB-149A	Blackboard
OMB-150	Blackboard
OMB-232	Blackboard
QUAD-1045	Blackboard
QUAD-1046	Blackboard
QUAD-1047	Blackboard
QUAD-1048	Blackboard
QUAD-G022	Blackboard
QUAD-G025	Blackboard
QUAD-G026	Blackboard

QUAD-G027	Blackboard
QUAD-G031	Blackboard
QUAD-G032	Blackboard
QUAD-G034	Blackboard
QUAD-G035	Blackboard
QUAD-G041	Blackboard
QUAD-G042	Blackboard
QUAD-G044	Blackboard
QUAD-G045	Blackboard
QUAD-G046	Blackboard
QUAD-G047	Blackboard
QUAD-G052	Blackboard
QUAD-G053	Blackboard
QUAD-G054	Blackboard
RC-1040	Blackboard
RC-1041	Blackboard
RC-1042	Blackboard
RC-1043	Blackboard
RC-2060	Blackboard
RC-2061	Blackboard
RC-2062	Blackboard
RC-2063	Blackboard
RC-M032	Blackboard
ME-303	Blackboard
ME-304	Blackboard
Central Lecture Block Theatre 1	Blackboard
Central Lecture Block Theatre 5	Blackboard
Keith Burrows Theatre	Blackboard
WEBSTER-236	Blackboard

(129 rows)

Time: 2.400 ms

```
ass2=# select * from q7('whiteboard');
      room | facility
```

-----+

(0 rows)

Time: 1.555 ms

```
ass2=# select q8('2005-01-01');
      q8
```

05x1

(1 row)

Time: 2.548 ms

```
ass2=# select q8('2005-04-01');
      q8
```

05s1

(1 row)

Time: 0.865 ms

```
ass2=# select q8('2009-02-21');
      q8
```

09x1

(1 row)

Time: 0.645 ms

```
ass2=# select q8('2009-02-22');
      q8
```

09s1

(1 row)

Time: 0.581 ms

```
ass2=# select * from q9(3169329);
```

code	term	name	mark	grade	uoc
-----+-----+-----+-----+-----+-----					

COMP1711	05s1	Higher Computing 1A	76	DN	6
MATH1081	05s1	Discrete Mathematics	57	PS	6
MATH1131	05s1	Mathematics 1A	59	PS	6
PHYS1121	05s1	Physics 1A	56	PS	6
COMP1721	05s2	Higher Computing 1B	76	DN	6
ELEC1011	05s2	Electrical Engineering 1	62	PS	6
MATH1231	05s2	Mathematics 1B	61	PS	6
PHYS1601	05s2	Comp. Applic'ns in Exp. Sci. 1	94	HD	6
GENL0230	06x1	Law in the Information Age	78	DN	3
COMP2121	06s1	Microprocessors & Interfacing	50	PS	6
COMP2711	06s1	Higher Data Organisation	63	PS	6
COMP2920	06s1	Professional Issues and Ethics	73	CR	3
MATH2301	06s1	Mathematical Computing	48	PC	6
COMP2041	06s2	Software Construction	82	DN	6
COMP3421	06s2	Computer Graphics	68	CR	6
GENS4015	06s2	Brave New World	63	PS	3
INFS1602	06s2	Info Systems in Business	62	PS	6
PHYS2630	06s2	Electronics	63	PS	3
COMP3111	07s1	Software Engineering	67	CR	6
COMP3331	07s1	Computer Networks&Applications	66	CR	6
COMP3411	07s1	Artificial Intelligence	60	PS	6
GENL2020	07s1	Intro to Australian Legal Sys	69	CR	3
COMP3121	07s2	Algorithms & Programming Tech	54	PS	6
COMP3222	07s2	Digital Circuits and Systems	65	CR	6
MATH3411	07s2	Information, Codes and Ciphers	50	PS	6
GENS4001	08x1	Astronomy	84	DN	3
COMP3311		Advanced standing, based on ... study at The University of Sydney			6
		Overall WAM	64		144

(29 rows)

Time: 9.440 ms

ass2=# select * from q9(3270322);

code	term	name	mark	grade	uoc
COMP1911	07s1	Computing 1A	79	DN	6
ENGG1000	07s1	Engineering Design	63	PS	6
INFS1603	07s1	Business Databases	81	DN	6
MATH1131	07s1	Mathematics 1A	63	PS	6
COMP1921	07s2	Computing 1B	63	PS	6
INFS1602	07s2	Info Systems in Business	59	PS	6
MATH1081	07s2	Discrete Mathematics	59	PS	6
MATH1231	07s2	Mathematics 1B	73	CR	6
GENM0703	08x1	Concept of Phys Fitness&Health	63	PS	3
GENS8004	08x1	Ergonomics, Product & Safety	77	DN	3
ACCT1501	08s1	Accounting & Financial Mgt 1A	61	PS	6
COMP2911	08s1	Eng. Design in Computing	67	CR	6
COMP2920	08s1	Professional Issues and Ethics	83	DN	3
COMP2041	08s2	Software Construction	76	DN	6
COMP2121	08s2	Microprocessors & Interfacing	63	PS	6
COMP9315	08s2	Database Systems Implementat'n	52	PS	6
ARTS1450	09s1	Introductory Chinese A	68	CR	6
COMP3141	09s1	Software Sys Des&Implementat'n	73	CR	6
COMP9318	09s1	Data Warehousing & Data Mining	63	PS	6
COMP9321	09s1	Web Applications Engineering	75	DN	6
COMP3421	09s2	Computer Graphics	67	CR	6
COMP3711	09s2	Software Project Management	75	DN	6
COMP9322	09s2	Service-Oriented Architectures	71	CR	6
COMP9323	09s2	e-Enterprise Project	85	HD	6
GENC7003	09s2	Managing Your Business	73	CR	3
COMP3311		Exemption, based on ... study at The University of Sydney			
		Overall WAM	68		138

(28 rows)

Time: 8.822 ms

ass2=# ... etc. etc. etc. ...