COMP9311 19T2   # Assignment 2   Database Systems
                                    Sample Outputs

Last updated: **Monday 8th July 3:49pm**
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_q`X 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 (9.0.3)
Type "help" for help.

ass2=# \i ass2.sql
CREATE VIEW
... etc. etc. etc. ...
CREATE FUNCTION
ass2=# select * from q1 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
 John Evans            | Actuarial Studies                               | 2006-04-01
 Chandini MacIntyre    | Public Health & Community Medicine              | 2008-03-26
 Christine Davison     | Education                                       | 2008-09-01
 Andrew Schultz        | English, Media & Performing Arts                | 2009-02-02
 Maurice Pagnucco      | Computer Science and Engineering                | 2010-07-01
(38 rows)

ass2=# select * from q2;
      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 q3(190);
   q3
```

```
 ------
 06x1
(1 row)

ass2=# select * from q3(210);
  q3
 ------
 10x1
(1 row)

ass2=# select * from q3(211);
  q3
 ------
 10s1
(1 row)

ass2=# select * from q3(150);      -- no such session
 q3
 ----

(1 row)

ass2=# \timing
Timing is on.
ass2=# select * from q4;
 term | percent
------+---------
 05s1 |    0.24
 05s2 |    0.23
 06s1 |    0.23
 06s2 |    0.23
 07s1 |    0.23
 07s2 |    0.23
 08s1 |    0.25
 08s2 |    0.26
 09s1 |    0.26
 09s2 |    0.27
 10s1 |    0.27
 10s2 |    0.29
 11s1 |    0.30
(13 rows)

Time: 1204.446 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                    | nofferings
----------------------------------------------+------------
```

```
      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
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        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
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 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 ...  |      |       |     6
          |      | study at The University of Sydney|      |       |
          |      | 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. ...
```