COMP9311 19T2   **Assignment 2**   Database Systems
                               Sample Outputs

Last updated: **Wednesday 17th July 4:43pm**
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
 Chandini MacIntyre    | Public Health & Community Medicine                | 2008-03-26
 Maurice Pagnucco      | Computer Science and Engineering                  | 2010-07-01
(35 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
QUAD-G042         | Blackboard
QUAD-G044         | Blackboard
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    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
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  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. ...
```