COMP9311 21T3   Database Systems

Assignment two
Sample Outputs

Last updated: **Sunday 24th October 9:35pm**
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 (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;
   code   | year | sess |     name
----------+------+------+-------------
 PHCM9748 | 2010 | S2   | Tony Butler
(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
 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 ...|    |    |   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. ...
```