

Week 6 Tutorial

SQL Query Part III

This week we will continue to use the UNIVERSITY database model:

1. Find the total number of prerequisite units for each unit. Include in the list the unitcode of units that do not have prerequisite. Hint: use an outer join.

UNITCODE	NO_OF_PREREQ
FIT1004	0
FIT1040	0
FIT2077	2
FIT5131	0
FIT5132	0
FIT5136	1

2. Display unitcode and unitname for units that do not have prerequisite.

UNITCODE	UNITNAME
FIT1004	Introduction to Data Management
FIT1040	Programming Fundamental
FIT5131	Programming Foundations
FIT5132	Introduction to Databases

There are many approaches that you can take in writing an SQL statement to answer this query. You can use the SET OPERATORS, OUTER JOIN and a SUBQUERY. Write SQL statements based on all of these approaches.

3. List the unit code and the average mark for each offering. Round the average to 2 digits after the decimal points. If the average result is 'null', display the average as 0.00. All values must be shown with two decimal digits:

UNITCODE	YEAR	SEMESTER	AVERAGE
FIT5131	2014	1	0.00
FIT2077	2013	2	64.50
FIT1004	2013	1	65.50
FIT1040	2013	1	67.80
FIT5131	2013	1	68.00
FIT1040	2013	2	71.83
FIT5132	2013	1	74.00
FIT5132	2013	3	74.00
FIT5136	2013	2	75.50
FIT1004	2013	2	75.83