

COMP810 – Data Warehousing and Big Data

Lab 6: SQL DML commands

After completing this lesson, you should be able to do the following:

- Promote understanding of populating tables (insert) and updating tables
- Promote understanding of table relationships and referential integrity

Task 1: write a query to generate the students grade report (below). You should first insert the data from the report into the 3 tables that you created last week (*student, course, grade*). Your answer should include the SQL code and explain the logic behind the sequence of implementation.

Student no	Student Name	Course no	Course Name	Grade %
S-7895	John Little	ML	Machine Learning	65
S-1478	Carol Wang	P1	Programming 1	70
S-7895	John Little	P1	Programming 1	70
S-2054	Tony Vegas	ML	Machine Learning	75
S-1478	Carol Wang	ML	Machine Learning	77
S-2054	Tony Vegas	LDD	Logical Database Design	77
S-1478	Carol Wang	LDD	Logical Database Design	80
S-3982	Allis Ship	P1	Programming 1	85
S-3695	James Ship	P1	Programming 1	88
S-3695	James Ship	LDD	Logical Database Design	90

Hint: remember to use the "commit" and "rollback" commands to save and undo changes.



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Task 2: Use the HR schema to implement the following scenario.

The megacorp company want to expand its operation to New Zealand (NZ) by establishing a new department "Research and Development" department ID "280" located in Auckland city. The new department has the location ID "3300", address "AUT City Campus, WT Building" and postal code "1010". You and 4 of your friends are hired to work in the new department as "IT_PROG". This position comes with a salary package of 5000 and does NOT include any commission percentage. All employees in the new department are hired on 1st of March, 2016 and will report to the manager "Steven King (Emp ID: 100)". The new 5 employees will take the Employee ID values of (207 – 211) and must get email IDs according to the format used in the employees table.

Implement the scenario above by inserting the necessary data into (*employees, departments, locations, countries*) tables.

Task 3: Use the HR schema to implement the following scenario.

You did an excellent work during the past few weeks and your manager decided to give you a commission of **0.05%**. Update your record in the employees table to give yourself the 0.05% commission.

Hint: remember to use the "commit" and "rollback" commands to save and undo changes.