Module 9 Activity 6.3 – Joins against the table

Estimated Completion Time: 150 minutes

Overview

This exercise will require participants to query on the tables in Oracle SQL PLUS using the SQL language.

Instructions

Querying records in tables should be done in SQL Server

1. In order to proceed with querying records in the tables, login using your user name created in Exercise 01 and then proceed to create the joins on the tables.

Hints

1. Ensure the following while creating the joins on the table:

   - Execute the query in SSMS
   - After each successful command save the command in the file.
   - save the file with name - joins.sql.

Joins

Equi Join

1) Display the course and the section information.

2) Display the instructor details along with the city and the state that they live in.

3) Display the student details of all students and city and state. Sort the result on the basis of zip code.

4) Write a query to display the first and last names of only the enrolled students and order on the basis of last name in descending order.

5) Display the zip, city and state and instructor names who are living in state 'NY'.

6) Write a query to display the student number, course number, enrollment date and section id for students who are enrolled in course number 20 on January 30 2000.

7) Display the course number, description, cost, section id, and the instructor names who are teaching the course.

8) Display the student number, section id and grade type code along with numeric grade and the month of enroll date for student id =220 and section id =119.

9) Display the student id, course number and section number of enrolled students where the instructor of the section lives in zip code 10025. Also, the course should not have any pre-requisites.

10) Display the instructor details along with the city, state who are teaching the section 2.

11) Display the list of enrolled student numbers who are living in state 'CT'.

12) Write a query to display the details of student 'Fenny Crawford' for section id 86.

13) Display the final examination numeric grade and details of all enrolled students living in state 'NY' of course number 300.

14) Display the student number, section id, numeric grade and last name who received grade less than 75 or less in class project.

Outer Join

1) Display the course number, description and pre-requisite along with section id. Those courses who do not have sections defined should also be displayed.

2) For the above query also include courses where no instructor is assigned.

3) For students with id's 102 and 301 display the student id, section id and numeric grade and the grade type. Display the details even if the student is not enrolled or has not received any grade.

Self Join

1) Many courses have pre-requisite. Display the course no and the description along with the pre-requisite and the description.

e.g. - 20 Intro to Java 10 Java Programming where 20 is the course no and 10 is the pre-requisite.

2) For the students who have enrolled in section id 86 find the students who have received a lower grade in their final examination than in their mid term. In the result set, display the student id, grade type code and numeric grade.

e.g. .studentid grade_type numeric_grade grade_type numeric_grade

100   FI   70   MI   75

3) Display the names of the students living at the same address and their zipcode.