

Lab 01B: Intro to SQL

Objective

This lab introduces students to SQL syntax and basic SQL queries.

The students should be able to:

- Understand the use of WHERE clause with SELECT statement
- Understand Logical and Comparison operators
- Define data ranges using IN, NOT IN and BETWEEN
- Perform pattern matching using LIKE and wildcards
- Use ORDER BY to sort the data

Submission Requirements

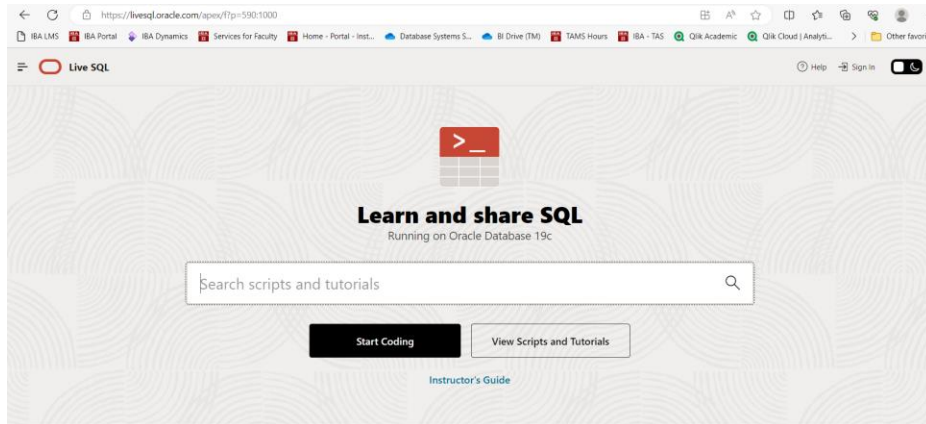
Save and submit your script file. File naming convention to follow: **Lab01B_Name_ERP.sql**

To add comments to the script use -- (double hyphens) or enclose between /* Comment */. For this lab make sure you add comments that display the question you are solving.

Tasks

If you are having trouble with Oracle, proceed to LIVE SQL to start coding now:

Step 1: Start Coding Now - <https://livesql.oracle.com/apex/>



Step 2: Create an account

Step 3: Verify account

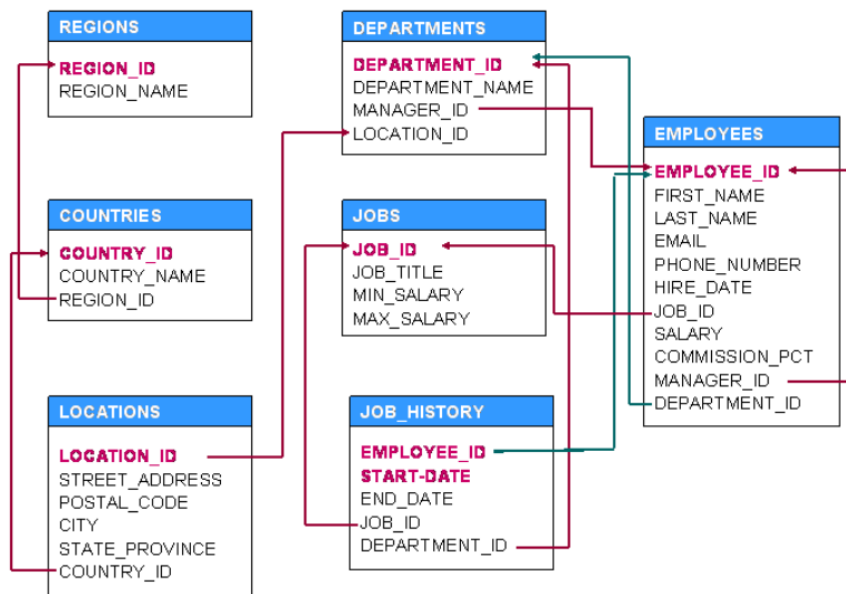
Step 4: Log in

Step 5: Schema > Human Resources (HR)

Step 6: SQL Worksheet

If you are working on LiveSQL, to start writing queries, you will access the tables in the HR table using the prefix "Hr." for example to access the HR table, write HR.EMPLOYEES.

HR Database Schema



SQL Queries

Write and Execute SQL queries for the following information needs:

1. Display the details of employees whose job is Sales Manager, sorted by salary in descending order.
2. List the names and salaries of employees who earn more than 15,000
3. Show all employees who receive commissions.
4. Display employees who do not work in department 50
5. Find employees who earn more than 10,000 AND work in department 80.
6. List employees who earn less than 5,000 OR work in department 100
7. Find employees who does not have manager.
8. Display employees with salary greater than 10000 and earn commission
9. Show employees whose job ID is not IT_PROG.
10. Display employees who work in departments 10, 20, or 30.
11. Show employees not working in departments 40, 50, or 60.
12. Find employees whose salary is between 5000 and 10000.
13. Display employees hired between January 1, 2000 and December 31, 2005.
14. Show employees with job IDs IT_PROG, SA_MAN, or FI_ACCOUNT.
15. Show employees whose first name starts with S.
16. Display employees whose last name ends with n.
17. Find employees whose first name contains the letters an.
18. Display employees whose are CLERK.
19. List employees in department 90 sorted by hire date.
20. Show employees sorted by commission percentage with lowest to highest .
21. Display the list of all employees who are not part of any department
22. Display list of all employees where JOB_ID is other than IT_PROG, SA_REP and FI_ACCOUNT.
23. Display list of all employees where MANAGER_ID is 100 or 101 or 201 using OR function.
24. Display list of all employees where MANAGER_ID is 100 or 102 or 201 using IN function.
25. Display list of all employees which are not getting any commission.
26. Display list of employees where the second character in FIRST_NAME is 'o'.
27. Retrieve employees with their job ID, First name, and hire date. Sorted all of this first by their job ID (in descending order) then by their first name (in ascending order)
28. Retrieve the employees whose job is either SA_REP or AD_PRES, but only if they also earn more than \$15,000.