

Lab Practice 2**Learning Outcome:**

- execute SQL DDL and DML commands

Student Learning Time (SLT): 3 hours

1. There are 4 coding errors in this statement. Identify the errors.

```
SELECT employee_id, last_name  
sal x 12 ANNUAL SALARY  
FROM employees;
```

2. Create a CUSTOMERS table with ID(Number) as primary key and NOT NULL are the constraints for fields ID, Name(VARCHAR2) and Age Number) while creating records in this table. Add 2 more fields, Address(CHAR) and Salary(Number) with appropriate spaces provided and receive null values.

3. Insert 3 records in CUSTOMERS table

```
1, 'Ramesh', 32, 'Ahmedabad', 2000.00
```

```
2, 'Khilan', 25, 'Delhi', 1500.00
```

```
3, 'kaushik', 23, 'Kota', 2000.00
```

4. Update ADDRESS for a customer whose ID is 3 to 'Pune'.
5. Delete a Customer whose ID is 2.
6. Add another column to store the customer's phone number.
7. Table CUSTOMERS will no longer be used. Remove the whole table from the database.
8. You have been hired as a SQL programmer for JJ Corporation. Your first task is to determine the structure of the DEPARTMENTS table and its contents.

9. You need to determine the structure of the EMPLOYEES table.
10. The HR department wants a query to display the last name, job code, hire date and employee number for each employee, with employee number appearing first. Provide an alias STARTDATE for the HIRE_DATE column.
11. The HR department needs a query to display all unique job codes from the EMPLOYEES table.
12. The HR department wants to see a display of annual compensation salary of employee's salary. It calculates the annual compensation by multiplying the monthly salary by 12, plus a one-time bonus of \$300 for each employee. Display the last name, salary and the annual compensation of the employees.
13. The HR department wants more descriptive column headings for its report on employees. Name the column headings Emp#, Employee, Job, and Hire Date, respectively. Then run your query again.
14. The HR department has requested a report of all employees and their job IDs. Display the last name concatenated with the job ID (separated by a comma and space) and name the column Employee and Title.
15. To familiarize yourself with the data in the EMPLOYEES table, create a query to display all the data from the EMPLOYEES table. Separate each column output by a comma. Name the column title THE_OUTPUT.