1. DEPARTMENT TABLE

```
CREATE DATABASE EXERCISE;
 1
 2 •
       USE EXERCISE;
 3
 4 • ○ CREATE TABLE DEPARTMENTS(
 5
       DEPT ID INT PRIMARY KEY,
       DEPT NAME VARCHAR(100)
 6
 7
       );
       INSERT INTO DEPARTMENTS VALUES
 8 •
       (1, 'CSC'),
 9
       (2, 'ECE'),
10
11
       (3, 'EIE');
```

2. EMPLOYEES TABLE

```
EMP_ID INT PRIMARY KEY,
13
14
      EMP_NAME VARCHAR(100),
      DEPT_ID INT,
15
16
      SALARY INT
17
     );
      INSERT INTO EMPLOYEES VALUES
18 •
      (101, 'ELAKKIYA', 3, 35000),
19
      (102, 'LAVANYA', 2, 28000),
20
      (103, 'KASHIFA', 2, 30000),
21
      (104, 'SEREESHA', 1, 32000),
22
      (105, 'RITHIKA', NULL , 28000);
23
```

3. JOIN BASED QUESTIONS

1. Show all employees with their department names

2. List employees who do not belong to any department

3. Display the total number of employees in each department

4. Show departments with no employees

```
mysql> SELECT DEPT_NAME FROM DEPARTMENTS
   -> LEFT JOIN EMPLOYEES ON DEPARTMENTS.DEPT_ID = EMPLOYEES.DEPT_ID
   -> WHERE DEPARTMENTS.DEPT_ID IS NULL;
Empty set (0.00 sec)
```

Every department has employees

5. List employee name and dept name those who earn > 30000

In order to capture query and output together I have used MySQL command line