# question

1. **Creating a Database named** lab3 **and table called** employee **with the following structure:**

| **Column Name** | **DataType** |
| --- | --- |
| eid | int |
| ename | varchar(20) |
| job | varchar(20) |
| country | varchar(25) |
| city | varchar(25) |
| salary | int |

1. **Inserting values into the `employee` table.**
2. **Select all information from the employee table.**
3. **Select employee name (ename) and job from the employee table.**
4. **Display all info from employee with County is `Germany` and Salary > 20,000.**
5. **Display ename, County, job, and Salary where job is `Programmers` or `Managers`.**
6. **Display all info where County is 'germany' and City is 'berlin' or 'Munich'.**
7. **All Information sorted in descending order.**

# Answer

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**sql**

CREATE DATABASE LAB3

CREATE TABLE EMPLOYEE(

E\_ID INT,

E\_NAME VARCHAR(20),

JOB VARCHAR(20),

COUNTRY VARCHAR(25),

CITY VARCHAR(25),

SALARY INT

);

INSERT INTO EMPLOYEE (E\_ID, E\_NAME, JOB, COUNTRY, SALARY)

VALUES(01,'PHURA','DESIGNER','GERMANY','30000'),

(02,'SURYA','ASSISTANT','INDIA','10000')

SELECT \* FROM `employee`

SELECT E\_NAME, JOB FROM employee

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sql

SELECT \* FROM `employee` WHERE COUNTRY='GERMANY'

AND SALARY>=20000;

SELECT E\_NAME,COUNTRY,JOB,SALARY FROM `employee` WHERE JOB='DOCTOR' OR JOB='ASSISTANT';

SELECT \* FROM `employee` WHERE COUNTRY='NEPAL' OR CITY='NULL';

SELECT E\_NAME FROM employee ORDER BY E\_NAME ASC

SELECT E\_NAME FROM employee ORDER BY E\_NAME DESC

SELECT \* FROM employee WHERE E\_NAME LIKE "S%"

# Question with answer

**Lab Report 03**

**Title:** SQL Table and Data Queries

**Objective:**

To understand and implement SQL queries involving table creation, data insertion, and data retrieval using SELECT, WHERE, ORDER BY, and LIKE clauses.

**Description:**

In this lab session, a database named lab3 was created along with a table called employee. The table includes fields such as employee ID, name, job, country, city, and salary. Various SQL queries were executed to insert records and retrieve specific data based on different conditions, sorting, and filtering criteria.

**Questions and Answers:**

## Create a Database named lab3 and a table called employee with the following structure:

CREATE DATABASE lab3;

CREATE TABLE employee (

E\_ID INT,

E\_NAME VARCHAR(20),

JOB VARCHAR(20),

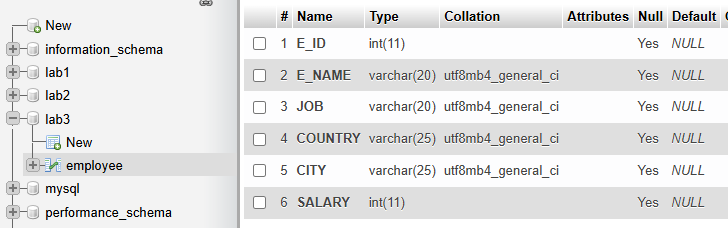
COUNTRY VARCHAR(25),

CITY VARCHAR(25),

SALARY INT

);

Output



## Insert values into the employee table:

INSERT INTO employee (E\_ID, E\_NAME, JOB, COUNTRY, CITY, SALARY)

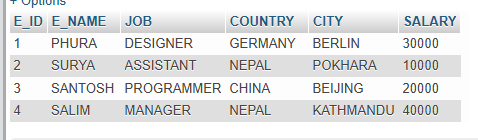
VALUES

(01, 'PHURA', 'DESIGNER', 'GERMANY', 'BERLIN', 30000),

(02, 'SURYA', 'ASSISTANT', 'NEPAL', 'POKHARA', 10000),

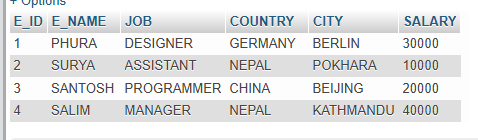
(03, 'SANTOSH', 'PROGRAMMER', 'CHINA', 'BEIJING', 20000),

(04, 'SALIM', 'MANAGER', 'NEPAL', 'KATHMANDU', 40000);



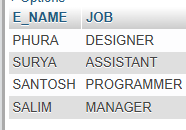
## Select all information from the employee table:

SELECT \* FROM employee;



## Select employee name (E\_NAME) and job from the employee table:

SELECT E\_NAME, JOB FROM employee;



## Display all info from employee where COUNTRY is 'GERMANY' and SALARY > 20,000:

SELECT \* FROM employee

WHERE COUNTRY = 'GERMANY' AND SALARY > 20000;



## Display E\_NAME, COUNTRY, JOB, and SALARY where JOB is 'Programmers' or 'Managers':

SELECT E\_NAME, COUNTRY, JOB, SALARY

FROM employee

WHERE JOB = 'PROGRAMMER' OR JOB = 'MANAGER';



## Display all info where COUNTRY is 'GERMANY' and CITY is 'BERLIN' or 'MUNICH':

SELECT \* FROM employee

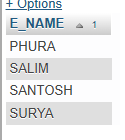
WHERE COUNTRY = 'GERMANY' AND (CITY = 'BERLIN' OR CITY = 'MUNICH');



## Display all employee names in ascending and descending order:

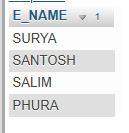
1. **Ascending:**

SELECT E\_NAME FROM employee ORDER BY E\_NAME ASC;



1. **Descending:**

SELECT E\_NAME FROM employee ORDER BY E\_NAME DESC;



## Display all records where the employee name starts with 'S':

SELECT \* FROM employee WHERE E\_NAME LIKE 'S%';

**Output (Expected):**

| **E\_ID** | **E\_NAME** | **JOB** | **COUNTRY** | **CITY** | **SALARY** |
| --- | --- | --- | --- | --- | --- |
| 1 | PHURA | DESIGNER | GERMANY | BERLIN | 30000 |
| 2 | SURYA | ASSISTANT | INDIA | DELHI | 10000 |

Filtered outputs vary depending on the WHERE conditions in each query. For example:

* Query 5 will return only the employee "PHURA".
* Query 9 will return only "SURYA".

**Conclusion:**

This lab provided hands-on experience with fundamental SQL operations including database and table creation, data insertion, and retrieval using SELECT statements with conditions. These operations are critical for effective data manipulation and querying in relational databases.

Let me know if you’d like this report in a Word or PDF format too!