

Name: Owais Ali Khan, Roll no: 21K-3298,

Section:F

SQL Questions:

Question 1:

```
CREATE DATABASE Engro Chemicals;
```

```
CREATE TABLE Employees
```

```
(      EmpID integer,  
      FName varchar(20) NOT NULL,  
      LName varchar(20) NOT NULL,  
      Department varchar(20) NOT NULL,  
      Project varchar(5),  
      Address varchar(20),  
      DOB date,  
      Position varchar(20) NOT NULL,  
      Joining date,  
      Salary integer NOT NULL,  
      PRIMARY KEY(EmpID) );
```

Question 2:

```
INSERT into Employees(EmpID, FName, LName, Department, Project, Address, DOB, Position, Joining,  
Salary)
```

```
VALUES
```

```
(1, "Salim", "Khan", "HR", "P1", "Hyderabad", '01/12/1976', "Manager", '01/05/2019', 50000),
```

```
(3, "Raheel", "Aslam", "Account", "P3", "Karachi", '01/01/1980', "Manager", '01/10/2019', 60000),
```

```
(4, "Ateeb", "Arsalan", "HR", "P1", "Hyderabad", '02/05/1992', "Lead", '02/05/2019', 45000);
```

Question 3:

Alter table Employees

ADD Tax integer;

Question 4:

```
UPDATE Employees
Set Tax = FLOOR(Salary / 100 * 3.5))
WHERE EmpID = 1,
Set Tax = FLOOR(Salary / 100 * 3.5)
WHERE EmpID = 3,
Set Tax = FLOOR(Salary / 100 * 3.5)
WHERE EmpID = 4;
```

Question 5:

```
Select EmpID, FName, LName from Employees
WHERE Position = "Manager" AND Project = "P3"
ORDER by DOB asc;
```

Question 6:

```
Select Project,Count(EmpID) from Employees
GROUP by Project
ORDER by Count(EmpID) asc;
```

Question 7:

```
Select EmpID, Joining, Salary from Employees
WHERE FName LIKE "Sal[ie]m";
```

Question 8:

```
Select EmpID, Address, DOB, Joining, Salary from Employees
```

WHERE FName LIKE "A%" and LName LIKE "K%N" and Salary < AVG(Salary);

Question 9:

Select EmpID, Address, DOB, Joining, Salary from Employees
group by Department
HAVING Salary = max(Salary);

Question 10:

Select Project from Employees
GROUP by Project
ORDER by Salary desc;

Question 11:

DELETE FROM Employees
WHERE Salary >= 60000;

Question 12:

DELETE FROM Employees
WHERE FName = "Salim" and LName = "Khan";

Question 13:

Select EmpID, FName, LName, Department from Employees
ORDER BY Salary DESC LIMIT 5;

Question 14:

Select Department, EmpID from COUNT(EmpID)
GROUP by Department
ORDER by COUNT(EmpID) asc;

Question 15:

Select Position, COUNT(EmpID), Salary from Employees

GROUP by Position

ORDER by Salary desc;