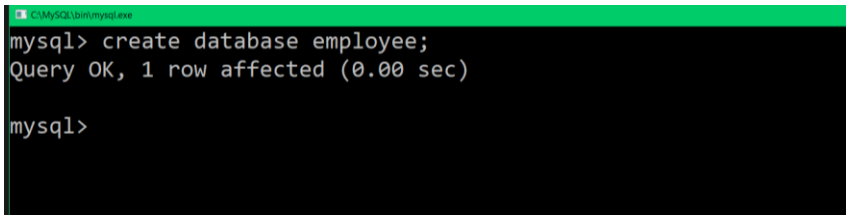
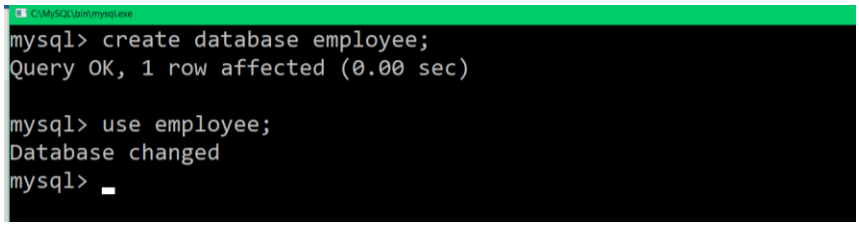
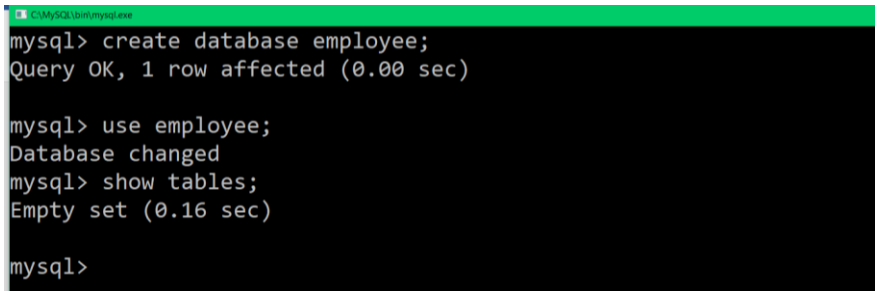
Q1. Create database.



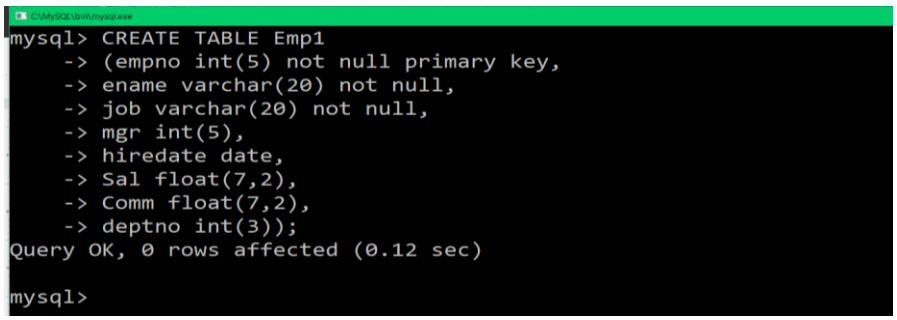
Q2. Open database.



Q3. Show tables in database.



Q4. Create table employee and insert values according to the table.



```
mysql> INSERT INTO Empl
    -> VALUES(8369,"SMITH","CLERK",8902,"1991-12-18",800,NULL,20),
    -> (8499,"ANYA","SALESMAN",8698,"1991-02-20",1600,300,30),
    -> (8521,"SETH","SALESMAN",8698,"1991-02-22",1250,500,30),
    -> (8566,"MAHADEVAN","MANAGER",8839,"1991-04-02",2985,NULL,20),
    -> (8654,"MOMIM","SALESMAN",8698,"1991-09-28",1250,1400,30),
    -> (8698,"BINA","MANAGER",8839,"1991-05-01",2850,NULL,30),
    -> (8882,"SHIVANSH","MANAGER",8839,"1991-06-09",2450,NULL,10),
    -> (8888,"SCOTT","ANALYST",8566,"1992-12-09",3000,NULL,20),
    -> (8839,"AMIR","PRESIDENT",NULL,"1991-11-18",5000,NULL,10),
    -> (8844,"KULDEEP","SALESMAN",8698,"1991-09-08",1500,0.00,30),
    -> (8886,"ANOOP","CLERK",8888,"1993-01-12",1100,NULL,20),
    -> (8900,"JATIN","CLERK",8698,"1991-12-03",950,NULL,30),
    -> (8902,"FAKIR","ANALYST",8566,"1991-12-03",3000,NULL,20),
    -> (8934,"MITA","CLERK",8882,"1992-01-23",1300,NULL,10);
Query OK, 14 rows affected (0.08 sec)
Records: 14  Duplicates: 0  Warnings: 0
```

Q5. View the structure of the table.

```
mysql> desc empl;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| empno    | int(5)      | NO   | PRI | NULL    |       |
| ename    | varchar(20) | NO   |     | NULL    |       |
| job      | varchar(20) | NO   |     | NULL    |       |
| mgr      | int(5)      | YES  |     | NULL    |       |
| hiredate | date        | YES  |     | NULL    |       |
| Sal      | float(7,2)  | YES  |     | NULL    |       |
| Comm     | float(7,2)  | YES  |     | NULL    |       |
| deptno   | int(3)      | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
8 rows in set (0.19 sec)

mysql>
```

Q6. Select all the records of table emp.

```
mysql> Select * from Empl;
+-------+-----------+-----------+------+------------+---------+---------+--------+
| empno | ename     | job       | mgr  | hiredate   | Sal     | Comm    | deptno |
+-------+-----------+-----------+------+------------+---------+---------+--------+
|  8369 | SMITH     | CLERK     | 8902 | 1991-12-18 |  800.00 |    NULL |     20 |
|  8499 | ANYA      | SALESMAN  | 8698 | 1991-02-20 | 1600.00 |  300.00 |     30 |
|  8521 | SETH      | SALESMAN  | 8698 | 1991-02-22 | 1250.00 |  500.00 |     30 |
|  8566 | MAHADEVAN | MANAGER   | 8839 | 1991-04-02 | 2985.00 |    NULL |     20 |
|  8654 | MOMIM     | SALESMAN  | 8698 | 1991-09-28 | 1250.00 | 1400.00 |     30 |
|  8698 | BINA      | MANAGER   | 8839 | 1991-05-01 | 2850.00 |    NULL |     30 |
|  8839 | AMIR      | PRESIDENT | NULL | 1991-11-18 | 5000.00 |    NULL |     10 |
|  8844 | KULDEEP   | SALESMAN  | 8698 | 1991-09-08 | 1500.00 |    0.00 |     30 |
|  8882 | SHIVANSH  | MANAGER   | 8839 | 1991-06-09 | 2450.00 |    NULL |     10 |
|  8886 | ANOOP     | CLERK     | 8888 | 1993-01-12 | 1100.00 |    NULL |     20 |
|  8888 | SCOTT     | ANALYST   | 8566 | 1992-12-09 | 3000.00 |    NULL |     20 |
|  8900 | JATIN     | CLERK     | 8698 | 1991-12-03 |  950.00 |    NULL |     30 |
|  8902 | FAKIR     | ANALYST   | 8566 | 1991-12-03 | 3000.00 |    NULL |     20 |
|  8934 | MITA      | CLERK     | 8882 | 1992-01-23 | 1300.00 |    NULL |     10 |
+-------+-----------+-----------+------+------------+---------+---------+--------+
```

Q7. Select all deptno from table emp. (Using ALL keyword

```
C:\MySQL\bin\mysql.exe
mysql> select all deptno from Empl;
+--------+
| deptno |
+--------+
|     20 |
|     30 |
|     30 |
|     20 |
|     30 |
|     30 |
|     10 |
|     30 |
|     10 |
|     20 |
|     20 |
|     30 |
|     20 |
|     10 |
+--------+
14 rows in set (0.00 sec)
```

Q8. Select distinct types of job from table emp.

```
mysql> Select distinct job from Empl;
+-----------+
| job       |
+-----------+
| CLERK     |
| SALESMAN  |
| MANAGER   |
| PRESIDENT |
| ANALYST   |
+-----------+
5 rows in set (0.05 sec)
```

Q9. Display a report showing empno, name and salary increased by Rs. 500 of all employees.

```
mysql> Select empno, ename, sal+500 as inc_salary
    -> From Empl;
+-------+-----------+------------+
| empno | ename     | inc_salary |
+-------+-----------+------------+
|  8369 | SMITH     |    1300.00 |
|  8499 | ANYA      |    2100.00 |
|  8521 | SETH      |    1750.00 |
|  8566 | MAHADEVAN |    3485.00 |
|  8654 | MOMIM     |    1750.00 |
|  8698 | BINA      |    3350.00 |
|  8839 | AMIR      |    5500.00 |
|  8844 | KULDEEP   |    2000.00 |
|  8882 | SHIVANSH  |    2950.00 |
|  8886 | ANOOP     |    1600.00 |
|  8888 | SCOTT     |    3500.00 |
|  8900 | JATIN     |    1450.00 |
|  8902 | FAKIR     |    3500.00 |
|  8934 | MITA      |    1800.00 |
+-------+-----------+------------+
14 rows in set (0.00 sec)
```

Q10. Display result in following form: <empname> is a <job> and has <sal> Rs, salary per month

```
mysql> Select ename, "is a",job, "and has","Rs.", sal,"salary per monnth"
    -> From Empl;
+----------+------+----------+---------+-----+---------+------------------+
| ename    | is a | job      | and has | Rs. | sal     | salary per monnth |
+----------+------+----------+---------+-----+---------+------------------+
| SMITH    | is a | CLERK    | and has | Rs. |  800.00 | salary per monnth |
| ANYA     | is a | SALESMAN | and has | Rs. | 1600.00 | salary per monnth |
| SETH     | is a | SALESMAN | and has | Rs. | 1250.00 | salary per monnth |
| MAHADEVAN| is a | MANAGER  | and has | Rs. | 2985.00 | salary per monnth |
| MOMIM    | is a | SALESMAN | and has | Rs. | 1250.00 | salary per monnth |
| BINA     | is a | MANAGER  | and has | Rs. | 2850.00 | salary per monnth |
| AMIR     | is a | PRESIDENT| and has | Rs. | 5000.00 | salary per monnth |
| KULDEEP  | is a | SALESMAN | and has | Rs. | 1500.00 | salary per monnth |
| SHIVANSH | is a | MANAGER  | and has | Rs. | 2450.00 | salary per monnth |
| ANOOP    | is a | CLERK    | and has | Rs. | 1100.00 | salary per monnth |
| SCOTT    | is a | ANALYST  | and has | Rs. | 3000.00 | salary per monnth |
| JATIN    | is a | CLERK    | and has | Rs. |  950.00 | salary per monnth |
| FAKIR    | is a | ANALYST  | and has | Rs. | 3000.00 | salary per monnth |
| MITA     | is a | CLERK    | and has | Rs. | 1300.00 | salary per monnth |
+----------+------+----------+---------+-----+---------+------------------+
14 rows in set (0.00 sec)
```

Q11. To display all records having salary greater than Rs. 2000.

```
mysql> Select *
    -> From Empl
    -> Where sal > 2000;
+-------+----------+----------+------+------------+---------+------+--------+
| empno | ename    | job      | mgr  | hiredate   | Sal     | Comm | deptno |
+-------+----------+----------+------+------------+---------+------+--------+
|  8566 | MAHADEVAN| MANAGER  | 8839 | 1991-04-02 | 2985.00 | NULL |     20 |
|  8698 | BINA     | MANAGER  | 8839 | 1991-05-01 | 2850.00 | NULL |     30 |
|  8839 | AMIR     | PRESIDENT| NULL | 1991-11-18 | 5000.00 | NULL |     10 |
|  8882 | SHIVANSH | MANAGER  | 8839 | 1991-06-09 | 2450.00 | NULL |     10 |
|  8888 | SCOTT    | ANALYST  | 8566 | 1992-12-09 | 3000.00 | NULL |     20 |
|  8902 | FAKIR    | ANALYST  | 8566 | 1991-12-03 | 3000.00 | NULL |     20 |
+-------+----------+----------+------+------------+---------+------+--------+
6 rows in set (0.07 sec)
```

Q12. To display all the records from emp table for department number 30 having job as clerk or manager.

```
mysql> select *
    -> From Empl
    -> Where deptno=30 and job IN("CLERK" , "MANAGER");
+-------+-------+---------+------+------------+---------+------+--------+
| empno | ename | job     | mgr  | hiredate   | Sal     | Comm | deptno |
+-------+-------+---------+------+------------+---------+------+--------+
|  8698 | BINA  | MANAGER | 8839 | 1991-05-01 | 2850.00 | NULL |     30 |
|  8900 | JATIN | CLERK   | 8698 | 1991-12-03 |  950.00 | NULL |     30 |
+-------+-------+---------+------+------------+---------+------+--------+
2 rows in set (0.10 sec)
```

Q13. To display empno, empname, salary having salary greater than Rs. 1000 and less than Rs. 2000.

```
mysql> Select empno, ename, sal
    -> From Empl
    -> Where sal>1000 and sal <2000;
+-------+---------+---------+
| empno | ename   | sal     |
+-------+---------+---------+
|  8499 | ANYA    | 1600.00 |
|  8521 | SETH    | 1250.00 |
|  8654 | MOMIM   | 1250.00 |
|  8844 | KULDEEP | 1500.00 |
|  8886 | ANOOP   | 1100.00 |
|  8934 | MITA    | 1300.00 |
+-------+---------+---------+
6 rows in set (0.01 sec)
```

Q14. To display Ename, sal and sal added with Comm from table emp.

```
mysql> Select ename, sal, comm, sal + ifnull(comm,0)
    -> from Empl;
+-----------+---------+---------+----------------------+
| ename     | sal     | comm    | sal + ifnull(comm,0) |
+-----------+---------+---------+----------------------+
| SMITH     |  800.00 |    NULL |               800.00 |
| ANYA      | 1600.00 |  300.00 |              1900.00 |
| SETH      | 1250.00 |  500.00 |              1750.00 |
| MAHADEVAN | 2985.00 |    NULL |              2985.00 |
| MOMIM     | 1250.00 | 1400.00 |              2650.00 |
| BINA      | 2850.00 |    NULL |              2850.00 |
| AMIR      | 5000.00 |    NULL |              5000.00 |
| KULDEEP   | 1500.00 |    0.00 |              1500.00 |
| SHIVANSH  | 2450.00 |    NULL |              2450.00 |
| ANOOP     | 1100.00 |    NULL |              1100.00 |
| SCOTT     | 3000.00 |    NULL |              3000.00 |
| JATIN     |  950.00 |    NULL |               950.00 |
| FAKIR     | 3000.00 |    NULL |              3000.00 |
| MITA      | 1300.00 |    NULL |              1300.00 |
+-----------+---------+---------+----------------------+
14 rows in set (0.08 sec)
```

Q15. To display employee name, salary and department number who are not getting commission.

```
mysql> Select ename, sal, deptno
    -> From Empl
    -> Where Comm is Null;
+-----------+---------+--------+
| ename     | sal     | deptno |
+-----------+---------+--------+
| SMITH     |  800.00 |     20 |
| MAHADEVAN | 2985.00 |     20 |
| BINA      | 2850.00 |     30 |
| AMIR      | 5000.00 |     10 |
| SHIVANSH  | 2450.00 |     10 |
| ANOOP     | 1100.00 |     20 |
| SCOTT     | 3000.00 |     20 |
| JATIN     |  950.00 |     30 |
| FAKIR     | 3000.00 |     20 |
| MITA      | 1300.00 |     10 |
+-----------+---------+--------+
10 rows in set (0.00 sec)
```

Q16. List the details of employees who earn more commission than their salaries.

```
mysql> Select *
    -> From Empl
    -> Where comm>sal;
+-------+-------+----------+------+------------+---------+---------+--------+
| empno | ename | job      | mgr  | hiredate   | Sal     | Comm    | deptno |
+-------+-------+----------+------+------------+---------+---------+--------+
|  8654 | MOMIM | SALESMAN | 8698 | 1991-09-28 | 1250.00 | 1400.00 |     30 |
+-------+-------+----------+------+------------+---------+---------+--------+
1 row in set (0.00 sec)
```

Q17. To display the empno and ename in alphabetical order of their names.

```
mysql> Select empno, ename
    -> From Empl
    -> Order By ename;
+-------+-----------+
| empno | ename     |
+-------+-----------+
|  8839 | AMIR      |
|  8886 | ANOOP     |
|  8499 | ANYA      |
|  8698 | BINA      |
|  8902 | FAKIR     |
|  8900 | JATIN     |
|  8844 | KULDEEP   |
|  8566 | MAHADEVAN |
|  8934 | MITA      |
|  8654 | MOMIM     |
|  8888 | SCOTT     |
|  8521 | SETH      |
|  8882 | SHIVANSH  |
|  8369 | SMITH     |
+-------+-----------+
14 rows in set (0.05 sec)
```

Q18. List the details of those employees who have four lettered names.

```
mysql> Select *
    -> From Empl
    -> Where ename Like "____";
+-------+-------+-----------+------+------------+---------+--------+--------+
| empno | ename | job       | mgr  | hiredate   | Sal     | Comm   | deptno |
+-------+-------+-----------+------+------------+---------+--------+--------+
|  8499 | ANYA  | SALESMAN  | 8698 | 1991-02-20 | 1600.00 | 300.00 |     30 |
|  8521 | SETH  | SALESMAN  | 8698 | 1991-02-22 | 1250.00 | 500.00 |     30 |
|  8698 | BINA  | MANAGER   | 8839 | 1991-05-01 | 2850.00 |   NULL |     30 |
|  8839 | AMIR  | PRESIDENT | NULL | 1991-11-18 | 5000.00 |   NULL |     10 |
|  8934 | MITA  | CLERK     | 8882 | 1992-01-23 | 1300.00 |   NULL |     10 |
+-------+-------+-----------+------+------------+---------+--------+--------+
5 rows in set (0.00 sec)
```

Q19. To display the list of employees in the ascending order of their salaries.

```
mysql> Select ename, sal
    -> From Empl
    -> Order By sal;
+-----------+---------+
| ename     | sal     |
+-----------+---------+
| SMITH     |  800.00 |
| JATIN     |  950.00 |
| ANOOP     | 1100.00 |
| SETH      | 1250.00 |
| MOMIM     | 1250.00 |
| MITA      | 1300.00 |
| KULDEEP   | 1500.00 |
| ANYA      | 1600.00 |
| SHIVANSH  | 2450.00 |
| BINA      | 2850.00 |
| MAHADEVAN | 2985.00 |
| SCOTT     | 3000.00 |
| FAKIR     | 3000.00 |
| AMIR      | 5000.00 |
+-----------+---------+
14 rows in set (0.00 sec)
```

Q20. Modify the job of the employee having id=8844 as clerk.

```
mysql> Update Empl
    -> Set job="Clerk"
    -> Where empno=8844;
Query OK, 1 row affected (0.13 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

Q21. To display the Sum, Average, Highest and Lowest Salary of the Employees grouped by department number.

```
mysql> Select Sum(sal), Avg(sal), Max(Sal),Min(sal), deptno
    -> From Empl
    -> Group By deptno;
+----------+-------------+----------+----------+--------+
| Sum(sal) | Avg(sal)    | Max(Sal) | Min(sal) | deptno |
+----------+-------------+----------+----------+--------+
|  8750.00 | 2916.666667 |  5000.00 |  1300.00 |     10 |
| 10885.00 | 2177.000000 |  3000.00 |   800.00 |     20 |
|  9400.00 | 1566.666667 |  2850.00 |   950.00 |     30 |
+----------+-------------+----------+----------+--------+
3 rows in set (0.05 sec)
```

Q22. To display ProductName, SupplierName and SupplierId from table Products and Suppliers where SupplierID is greater than 27

SQL Statement:

```
Select ProductName, SupplierName, P.SupplierID
From Products P, Suppliers S
Where S.SupplierID=P.SupplierID and P.SupplierID>27
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 4

ProductName	SupplierName	SupplierID
Raclette Courdavault	Gai pâturage	28
Camembert Pierrot	Gai pâturage	28
Sirop d'érable	Forêts d'érables	29
Tarte au sucre	Forêts d'érables	29

Q23. To display the jobs where the number of employees is less than 3. (Use Having Command)

```
mysql> Select job, count(*)
    -> From Empl
    -> Group By job
    -> Having Count(*)<3;
+-----------+----------+
| job       | count(*) |
+-----------+----------+
| ANALYST   |        2 |
| PRESIDENT |        1 |
+-----------+----------+
2 rows in set (0.00 sec)
```

Q24. To display the difference of highest and lowest salary of each department having maximum salary>4000.

```
mysql> Select Max(sal) - Min(Sal) "Difference", deptno
    -> From Empl
    -> Group By deptno
    -> Having Max(sal)> 4000;
+------------+--------+
| Difference | deptno |
+------------+--------+
|    3700.00 |     10 |
+------------+--------+
1 row in set (0.00 sec)

mysql>
```

Q25. To delete the table.

```
mysql> drop table Emp0;
Query OK, 0 rows affected (0.21 sec)

mysql>
```