**1)Crete table employee with the following details**

mysql> create table employee(employee\_id int primary key, last\_name varchar(25) not null, job\_id varchar(10) not null, salary float(8,2) not null, c

omm\_pct float(4,2) , mgr\_id int(6) not null , department\_id int(4) not null);

Query OK, 0 rows affected, 4 warnings (0.03 sec)

mysql> desc employee;

+---------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+-------------+------+-----+---------+-------+

| employee\_id | int | NO | PRI | NULL | |

| last\_name | varchar(25) | NO | | NULL | |

| job\_id | varchar(10) | NO | | NULL | |

| salary | float(8,2) | NO | | NULL | |

| comm\_pct | float(4,2) | YES | | NULL | |

| mgr\_id | int | NO | | NULL | |

| department\_id | int | NO | | NULL | |

+---------------+-------------+------+-----+---------+-------+

7 rows in set (0.01 sec)

-------------------------------------------------------------------------

**2) Insert the following data into employee table.**

**mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(198,'Connell','SH\_CLERK',2600,2.5,124,50);**

**Query OK, 1 row affected (0.00 sec)**

**mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(199,'Grant','SH\_CLERK',2600,2.2,124,50);**

**Query OK, 1 row affected (0.01 sec)**

**mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(200,'Whalen','AD\_ASST',4400,1.3,101,10);**

**Query OK, 1 row affected (0.00 sec)**

**mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(201,'Hartstein','IT\_PROG',6000,NULL,100,20);**

**Query OK, 1 row affected (0.00 sec)**

**mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(202,'Fay','AC\_MGR',6500,NULL,210,20);**

**Query OK, 1 row affected (0.00 sec)**

**mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(203,'Mavris','AD\_VP',7500,NULL,101,40);**

**Query OK, 1 row affected (0.00 sec)**

**mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(204,'Baer','AD\_PRES',3500,1.5,101,90);**

**Query OK, 1 row affected (0.01 sec)**

**mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(205,'Higgins','AC\_MGR',2300,NULL,101,60);**

**Query OK, 1 row affected (0.00 sec)**

**mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(206,'Gitz','IT\_PROG',5000,NULL,103,60);**

**Query OK, 1 row affected (0.00 sec)**

**mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(100,'King','AD\_ASST',8956,0.3,108,100);**

**Query OK, 1 row affected (0.01 sec)**

**mysql> insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(101,'Kochar','SH\_CLERK',3400,1.3,118,30);**

**Query OK, 1 row affected (0.01 sec)**

mysql> select \* from employee;

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

| 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 |

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

| 203 | Mavris | AD\_VP | 7500.00 | NULL | 101 | 40 |

| 204 | Baer | AD\_PRES | 3500.00 | 1.50 | 101 | 90 |

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 |

+-------------+-----------+----------+---------+----------+--------+---------------+

11 rows in set (0.00 sec)

-------------------------------------------------------------------------

**3) display last\_name,job\_id,employee\_id for each employee with employee\_id appearing first.**

**mysql> select employee\_id, last\_name, job\_id from employee;**

+-------------+-----------+----------+

| employee\_id | last\_name | job\_id |

+-------------+-----------+----------+

| 100 | King | AD\_ASST |

| 101 | Kochar | SH\_CLERK |

| 198 | Connell | SH\_CLERK |

| 199 | Grant | SH\_CLERK |

| 200 | Whalen | AD\_ASST |

| 201 | Hartstein | IT\_PROG |

| 202 | Fay | AC\_MGR |

| 203 | Mavris | AD\_VP |

| 204 | Baer | AD\_PRES |

| 205 | Higgins | AC\_MGR |

| 206 | Gitz | IT\_PROG |

+-------------+-----------+----------+

11 rows in set (0.00 sec)

-------------------------------------------------------------------------

**4) Display the details of all employees of department 60.**

mysql> select \* from employee where department\_id=60;

+-------------+-----------+---------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+---------+---------+----------+--------+---------------+

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 |

+-------------+-----------+---------+---------+----------+--------+---------------+

2 rows in set (0.01 sec)

-------------------------------------------------------------------------

**5)Display the employee details of the employee who’s last\_name is King.**

mysql> select \* from employee where last\_name = 'King';

+-------------+-----------+---------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+---------+---------+----------+--------+---------------+

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 |

+-------------+-----------+---------+---------+----------+--------+---------------+

1 row in set (0.00 sec)

-------------------------------------------------------------------------

**6) Display unique job\_id from employee table. Give alias name to the column as Job\_title.**

mysql> select distinct job\_id as Job\_title from employee;

+-----------+

| Job\_title |

+-----------+

| AD\_ASST |

| SH\_CLERK |

| IT\_PROG |

| AC\_MGR |

| AD\_VP |

| AD\_PRES |

+-----------+

6 rows in set (0.01 sec)

-------------------------------------------------------------------------

**7) Display last\_name,salary and salary increase of Rs300. Give the new column name as ‘Incresed Salary’.**

mysql> select last\_name,salary+(salary+300) as incresed\_salary from employee;

+-----------+-----------------+

| last\_name | incresed\_salary |

+-----------+-----------------+

| King | 18212.00 |

| Kochar | 7100.00 |

| Connell | 5500.00 |

| Grant | 5500.00 |

| Whalen | 9100.00 |

| Hartstein | 12300.00 |

| Fay | 13300.00 |

| Mavris | 15300.00 |

| Baer | 7300.00 |

| Higgins | 4900.00 |

| Gitz | 10300.00 |

+-----------+-----------------+

11 rows in set (0.00 sec)

-------------------------------------------------------------------------

**8)Display last\_name ,salary and annual compensation of all employees, plus a onetime bonus of Rs 100. Give an alias name to the column displaying annual compensation.**

mysql> select last\_name,salary, (salary\*12+100) as annual\_compensation from employee;

+-----------+---------+---------------------+

| last\_name | salary | annual\_compensation |

+-----------+---------+---------------------+

| King | 8956.00 | 107572.00 |

| Kochar | 3400.00 | 40900.00 |

| Connell | 2600.00 | 31300.00 |

| Grant | 2600.00 | 31300.00 |

| Whalen | 4400.00 | 52900.00 |

| Hartstein | 6000.00 | 72100.00 |

| Fay | 6500.00 | 78100.00 |

| Mavris | 7500.00 | 90100.00 |

| Baer | 3500.00 | 42100.00 |

| Higgins | 2300.00 | 27700.00 |

| Gitz | 5000.00 | 60100.00 |

+-----------+---------+---------------------+

11 rows in set (0.01 sec)

-------------------------------------------------------------------------

**9) Display the details of those employees who get commission.**

select \* from employee where comm\_pct is not null;

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

| 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 |

| 204 | Baer | AD\_PRES | 3500.00 | 1.50 | 101 | 90 |

+-------------+-----------+----------+---------+----------+--------+---------------+

6 rows in set (0.01 sec)

-------------------------------------------------------------------------

**10) Display the details of those employees who do not get commission.**

mysql> select \* from employee where comm\_pct is null;

+-------------+-----------+---------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+---------+---------+----------+--------+---------------+

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

| 203 | Mavris | AD\_VP | 7500.00 | NULL | 101 | 40 |

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 |

+-------------+-----------+---------+---------+----------+--------+---------------+

5 rows in set (0.00 sec)

-------------------------------------------------------------------------

**11) Display the employee \_id, department \_id and salary all employees whose salary is greater than 5000.**

mysql> select employee\_id,salary,department\_id from employee where salary>5000;

+-------------+---------+---------------+

| employee\_id | salary | department\_id |

+-------------+---------+---------------+

| 100 | 8956.00 | 100 |

| 201 | 6000.00 | 20 |

| 202 | 6500.00 | 20 |

| 203 | 7500.00 | 40 |

+-------------+---------+---------------+

4 rows in set (0.00 sec)

-------------------------------------------------------------------------

**12) Display the Last\_Name and Salary of all employees whose salary is between 4000 and 7000.**

select last\_name, salary from employee where salary between 4000 and 7000;

+-----------+---------+

| last\_name | salary |

+-----------+---------+

| Whalen | 4400.00 |

| Hartstein | 6000.00 |

| Fay | 6500.00 |

| Gitz | 5000.00 |

+-----------+---------+

4 rows in set (0.00 sec)

-------------------------------------------------------------------------

**13) Display the details of all employees whose salary is either 6000 or 6500 or 7000.**

mysql> select \* from employee where salary in(6000,6500,7000);

+-------------+-----------+---------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+---------+---------+----------+--------+---------------+

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

+-------------+-----------+---------+---------+----------+--------+---------------+

2 rows in set (0.00 sec)

-------------------------------------------------------------------------

**14)** **Display the details of all those employees who work either in department 10 or 20 or 30 or 50.**

mysql> select \* from employee where department\_id in(10,20,30,50);

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

| 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 |

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

+-------------+-----------+----------+---------+----------+--------+---------------+

6 rows in set (0.00 sec)

-------------------------------------------------------------------------

**15) Display the details of all employees whose salary is not equal to 5000.**

select \* from employee where salary != 5000;

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

| 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 |

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

| 203 | Mavris | AD\_VP | 7500.00 | NULL | 101 | 40 |

| 204 | Baer | AD\_PRES | 3500.00 | 1.50 | 101 | 90 |

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 |

+-------------+-----------+----------+---------+----------+--------+---------------+

10 rows in set (0.00 sec)

-------------------------------------------------------------------------

**16) Display the details of all the CLERKS working in the organization.**

mysql> select \* from employee where job\_id = 'SH\_CLERK';

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

| 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

+-------------+-----------+----------+---------+----------+--------+---------------+

3 rows in set (0.01 sec)

-------------------------------------------------------------------------

**17.Update the job\_id’s of the employees who earn more than 5000 to Grade\_A. Display the table EMPLOYEE after updating.**

mysql> update employee set job\_id ='Grade\_A' where salary>5000;

Query OK, 4 rows affected (0.05 sec)

Rows matched: 4 Changed: 4 Warnings: 0

mysql> select \* from employee;

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 100 | King | Grade\_A | 8956.00 | 0.30 | 108 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

| 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 |

| 201 | Hartstein | Grade\_A | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | Grade\_A | 6500.00 | NULL | 210 | 20 |

| 203 | Mavris | Grade\_A | 7500.00 | NULL | 101 | 40 |

| 204 | Baer | AD\_PRES | 3500.00 | 1.50 | 101 | 90 |

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 |

+-------------+-----------+----------+---------+----------+--------+---------------+

11 rows in set (0.00 sec)

-------------------------------------------------------------------------

**18) Display the details of all those employees who are either CLERK or PROGRAMMER or ASSISTANT.**

mysql> select \* from employee where job\_id in ('SH\_CLERK', 'IT\_PROG', 'AD\_ASST');

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

| 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 |

+-------------+-----------+----------+---------+----------+--------+---------------+

5 rows in set (0.00 sec)

-------------------------------------------------------------------------

**19) Display those employees from the EMPLOYEE table whose designation is CLERK and salary is less than 3000.**

mysql> select \* from employee where job\_id ='SH-CLERK' and salary < 3000;

Empty set (0.00 sec)

-------------------------------------------------------------------------

**20) Display those employees Last\_Name, Mgr\_id from the EMPLOYEE table whose salary is above 3000 and work under Manager 101.**

mysql> select last\_name, mgr\_id from employee where salary > 3000 and mgr\_id = 101;

+-----------+--------+

| last\_name | mgr\_id |

+-----------+--------+

| Whalen | 101 |

| Mavris | 101 |

| Baer | 101 |

+-----------+--------+

3 rows in set (0.00 sec)