1)Create table EMPLOYEE with the following details.

mysql> desc employee;

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

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

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

| employee\_id | int | YES | | NULL | |

| last\_name | varchar(25) | YES | | NULL | |

| job\_id | varchar(10) | YES | | NULL | |

| salary | double(8,2) | YES | | NULL | |

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

| mgr\_id | int | YES | | NULL | |

| department\_id | int | YES | | NULL | |

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

create table employee(employee\_id int(6),last\_name varchar(25),job\_id varchar(10),salary double(8,2),comm\_pct double(4,2),mgr\_id int(6),department\_id int(4));

2) . Insert the following data into EMPLOYEE table.

insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(198,'connel','sh\_clerk',2600,2.5,124,50);

insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(198,'connel','sh\_clerk insert into employee(employee\_id,last\_name,job\_id,salary,comm\_pct,mgr\_id,department\_id) values(198,'grant','sh\_clerk',2600,2.2,124,50);

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(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 (0.00 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 (0.04 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);

3. Display last\_name, job\_id, employee\_id for each employee with employee\_id appearing first.

select last\_name,job\_id,employee\_id from employee;

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

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

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

| connel | sh\_clerk | 198 |

| grant | sh\_clerk | 198 |

| whalen | ad\_asst | 200 |

| hartstein | it\_prog | 201 |

| fay | ac\_mgr | 202 |

| mavris | ad\_vp | 203 |

| baer | Ad\_pres | 204 |

| higgins | ac\_mgr | 205 |

| gitz | it\_prog | 206 |

| king | Ad\_asst | 100 |

| kochar | sh\_clerk | 101 |

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

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 (0.00 sec)

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

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 |

6)Display unique job\_id from EMPLOYEE table. Give alias name to the column as JOB\_TITLE

select distinct job\_id as job\_title from employee;

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

| job\_title |

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

| sh\_clerk |

| ad\_asst |

| it\_prog |

| ac\_mgr |

| ad\_vp |

| Ad\_pres |

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

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

select last\_name,salary,(salary+300) as increased\_salary from employee;

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

| last\_name | salary | increased\_salary |

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

| connel | 2600.00 | 2900.00 |

| grant | 2600.00 | 2900.00 |

| whalen | 4400.00 | 4700.00 |

| hartstein | 6000.00 | 6300.00 |

| fay | 6500.00 | 6800.00 |

| mavris | 7500.00 | 7800.00 |

| baer | 3500.00 | 3800.00 |

| higgins | 2300.00 | 2600.00 |

| gitz | 5000.00 | 5300.00 |

| king | 8956.00 | 9256.00 |

| kochar | 3400.00 | 3700.00 |

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.

select last\_name,salary,(salary\*12)+12 as 'annual compensation' from employee;

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

| last\_name | salary | annual compensation |

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

| connel | 2600.00 | 31212.00 |

| grant | 2600.00 | 31212.00 |

| whalen | 4400.00 | 52812.00 |

| hartstein | 6000.00 | 72012.00 |

| fay | 6500.00 | 78012.00 |

| mavris | 7500.00 | 90012.00 |

| baer | 3500.00 | 42012.00 |

| higgins | 2300.00 | 27612.00 |

| gitz | 5000.00 | 60012.00 |

| king | 8956.00 | 107484.00 |

| kochar | 3400.00 | 40812.00 |

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 |

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

| 198 | connel | sh\_clerk | 2600.00 | 2.50 | 124 | 50 |

| 198 | 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 |

| 100 | king | Ad\_asst | 8956.00 | 0.30 | 108 | 100 |

| 101 | kochar | sh\_clerk | 3400.00 | 1.30 | 118 | 30 |

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

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

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 |

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

11.Display the Employee\_id, Department\_id and Salary all employees whose salary is greater than 5000.

select employee\_id,department\_id,salary from employee where salary

>5000;

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

| employee\_id | department\_id | salary |

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

| 201 | 20 | 6000.00 |

| 202 | 20 | 6500.00 |

| 203 | 40 | 7500.00 |

| 100 | 100 | 8956.00 |

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 |

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

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 |

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

select \* from employee where department\_id=10 OR 20 OR 30 OR 50;

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

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

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

| 198 | connel | sh\_clerk | 2600.00 | 2.50 | 124 | 50 |

| 198 | 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 |

| 100 | king | Ad\_asst | 8956.00 | 0.30 | 108 | 100 |

| 101 | kochar | sh\_clerk | 3400.00 | 1.30 | 118 | 30 |

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

select \* from employee where NOt salary=5000;

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

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

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

| 198 | connel | sh\_clerk | 2600.00 | 2.50 | 124 | 50 |

| 198 | 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 |

| 100 | king | Ad\_asst | 8956.00 | 0.30 | 108 | 100 |

| 101 | kochar | sh\_clerk | 3400.00 | 1.30 | 118 | 30 |

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

select \* from employee where job\_id='sh\_clerk';

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

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

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

| 198 | connel | sh\_clerk | 2600.00 | 2.50 | 124 | 50 |

| 198 | grant | sh\_clerk | 2600.00 | 2.20 | 124 | 50 |

| 101 | kochar | sh\_clerk | 3400.00 | 1.30 | 118 | 30 |

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

select job\_id as 'Grade\_A' from employee where salary>5000;

+---------+

| Grade\_A |

+---------+

| it\_prog |

| ac\_mgr |

| ad\_vp |

| Ad\_asst |

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

select \* from employee where job\_id='sh\_clerk' OR 'it\_prog' OR 'Ad\_asst';

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

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

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

| 198 | connel | sh\_clerk | 2600.00 | 2.50 | 124 | 50 |

| 198 | grant | sh\_clerk | 2600.00 | 2.20 | 124 | 50 |

| 101 | kochar | sh\_clerk | 3400.00 | 1.30 | 118 | 30 |

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

select \* from employee where job\_id='sh\_clerk' AND salary<3000;

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

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

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

| 198 | connel | sh\_clerk | 2600.00 | 2.50 | 124 | 50 |

| 198 | grant | sh\_clerk | 2600.00 | 2.20 | 124 | 50 |

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

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

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

| last\_name | mgr\_id |

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

| whalen | 101 |

| mavris | 101 |

| baer | 101 |

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