1. **Create table EMPLOYEE with the following details.**

**desc Employee;**

**+---------------+-------------+------+-----+---------+-------+**

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

**+---------------+-------------+------+-----+---------+-------+**

**| Employee\_id | int | NO | PRI | NULL | |**

**| Last\_name | varchar(25) | YES | | NULL | |**

**| Job\_id | varchar(15) | 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 | |**

**+---------------+-------------+------+-----+---------+-------+**

**7 rows in set (0.02 sec)**

1. **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,'Connell','Sh\_Clerk',2600,2.5,124,50);**

**Query OK, 1 row affected (0.03 sec**

**insert into Employee values(202,'Fay','AC\_MGR',6500, null, 210,20);**

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

**insert into Employee values(199,'Grant','Sh\_Clerk',2600,2.2,124,150),(200,'Whalen','Ad\_asst',4400,1.3,101,10),(201,'Hartstein','IT\_PROG', 6000, null, 100, 20),(203,'Mavris','AD\_VP',7500, null, 101,40),(204,'Baer','AD\_PRES',3500,1.5,101,90),(205,'Higgins','AC\_MGR',2300 ,null,101,60),(206,'Gitz','IT\_PROG',5000,null,103,60),(100,'King','AD\_ASST',8956,0.3,108,100),(101,'Kochar','SH\_CLERK',3400,1.3,118,30);**

**Query OK, 9 rows affected (0.00 sec)**

**Records: 9 Duplicates: 0 Warnings: 0**

**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 | 150 |**

**| 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)**

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

**select Employee\_id , Last\_name,Job\_id from Employee order by Employee\_id;**

**+-------------+-----------+----------+**

**| 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)**

1. **Display the details of all employees of department 60.**

**select Employee\_id , Last\_name,Job\_id,Salary,Comm\_pct,Mgr\_id,Department\_id from Employee where Department\_id in(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)**

1. **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 |**

**+-------------+-----------+---------+---------+----------+--------+---------------+**

**1 row in set (0.01 sec)**

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

**select distinct Job\_id from Employee;**

**+----------+**

**| Job\_id |**

**+----------+**

**| AD\_ASST |**

**| SH\_CLERK |**

**| IT\_PROG |**

**| AC\_MGR |**

**| AD\_VP |**

**| AD\_PRES |**

**+----------+**

**6 rows in set (0.02 sec)**

**select Job\_id as Job\_Title from Employee;**

**+-----------+**

**| Job\_Title |**

**+-----------+**

**| AD\_ASST |**

**| SH\_CLERK |**

**| Sh\_Clerk |**

**| Sh\_Clerk |**

**| Ad\_asst |**

**| IT\_PROG |**

**| AC\_MGR |**

**| AD\_VP |**

**| AD\_PRES |**

**| AC\_MGR |**

**| IT\_PROG |**

**+-----------+**

1. **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 |**

**+-----------+---------+------------------+**

**| King | 8956.00 | 9256.00 |**

**| Kochar | 3400.00 | 3700.00 |**

**| Connell | 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 |**

**+-----------+---------+------------------+**

**11 rows in set (0.00 sec)**

1. **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 compensationDisplay 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+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 (0.02 sec)**

1. **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 | 150 |**

**| 200 | Whalen | Ad\_asst | 4400.00 | 1.30 | 101 | 10 |**

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

**+-------------+-----------+----------+---------+----------+--------+---------------+**

1. **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 |**

**+-------------+-----------+---------+---------+----------+--------+---------------+**

**5 rows in set (0.00 sec)**

1. **Display the Employee\_id, Department\_id and Salary all employees whose salary is.**

**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)**

1. **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)**

1. **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 |**

**+-------------+-----------+---------+---------+----------+--------+---------------+**

**2 rows in set (0.00 sec)**

1. **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 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 |**

**| 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 |**

**+-------------+-----------+----------+---------+----------+--------+---------------+**

**5 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 | 150 |**

**| 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 |**

**+-------------+-----------+----------+---------+----------+--------+---------------+**

1. **ows in set (0.00 sec)**

**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 |**

**+-------------+-----------+----------+---------+----------+--------+---------------+**

**| 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 | 150 |**

**+-------------+-----------+----------+---------+----------+--------+---------------+**

**3 rows in set (0.00 sec)**

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

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

**Query OK, 4 rows affected (0.03 sec)**

**Rows matched: 4 Changed: 4 Warnings: 0**

**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 | 150 |**

**| 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.**

**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 | 150 |**

**| 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.**

**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.**

**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)**