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

* **create table EMPLOYEE(EMPLOYEE\_ID INT(6),LAST\_NAME VARCHAR(25),JOB\_ID VARCHAR(10),SALARY FLOAT(8,2),COMM\_PCT FLOAT(4,2),MGR\_ID INT(6),DEPARTMENT\_ID INT(4));**

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

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

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

**| EMPLOYEE\_ID | int | YES | | NULL | |**

**| LAST\_NAME | varchar(25) | YES | | NULL | |**

**| JOB\_ID | varchar(10) | YES | | NULL | |**

**| SALARY | float(8,2) | YES | | NULL | |**

**| COMM\_PCT | float(4,2) | YES | | NULL | |**

**| MGR\_ID | int | YES | | NULL | |**

**| DEPARTMENT\_ID | int | YES | | NULL | |**

**| INCREASED\_SALARY | float(8,2) | YES | | NULL | |**

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

**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),(199,'Grant','SH\_CLERK',2600,2.2,124,50),(200,'Whalen','AD\_ASST',4400,1.3,101,10),(201,'Hartstein','IT\_PROG',6000,null,100,20),(202,'Fay','AC\_MGR',6500,null,210,20),(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);**

|  |
| --- |
| **EMPLOYEE\_ID | LAST\_NAME | JOB\_ID | SALARY | COMM\_PCT | MGR\_ID | DEPARTMENT\_ID |** |
| **+-------------+-----------+----------+---------+----------+--------+---------------+** |
| **| 198 | Connel | 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 |** |
| **| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 |** |
| **| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |** |
|  |
|  |

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

* **select distinct EMPLOYEE\_ID,LAST\_NAME,JOB\_ID from EMPLOYEE;**

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

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

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

**| 198 | Connel | 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 |**

**| 100 | King | AD\_ASST |**

**| 101 | Kochar | SH\_CLERK |**

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

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

* **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 |**

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

**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 JOB\_ID AS JOB\_TITLE FROM EMPLOYEE;**

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

**| JOB\_TITLE |**

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

**| SH\_CLERK |**

**| SH\_CLERK |**

**| AD\_ASST |**

**| IT\_PROG |**

**| AC\_MGR |**

**| AD\_VP |**

**| AD\_PRES |**

**| AC\_MGR |**

**| IT\_PROG |**

**| AD\_ASST |**

**| SH\_CLERK |**

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

* update employee set INCREASED\_SALARY=salary+300;
* select LAST\_NAME,SALARY,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.**

* **alter table employee add column ONE\_TIME\_BONUS int(10);**
* **update employee set ONE\_TIME\_BONUS=100;**
* **select last\_name,salary,((salary\*12)+100) as ANNUAL\_COMPENSATION from employee;**

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

**| last\_name | salary | ANNUAL\_COMPENSATION |**

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

**| Connel | 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 |**

**| King | 8956.00 | 107572.00 |**

**| Kochar | 3400.00 | 40900.00 |**

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

* select \* from employee where comm\_pct!=0;

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

| EMPLOYEE\_ID | LAST\_NAME | JOB\_ID | SALARY | COMM\_PCT | MGR\_ID | DEPARTMENT\_ID | INCREASED\_SALARY | ONE\_TIME\_BONUS |

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

| 198 | Connel | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 | 2900.00 | 100 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 | 2900.00 | 100 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 | 4700.00 | 100 |

| 204 | Baer | AD\_PRES | 3500.00 | 1.50 | 101 | 90 | 3800.00 | 100 |

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 | 9256.00 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 | 3700.00 | 100 |

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

**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 | INCREASED\_SALARY | ONE\_TIME\_BONUS |

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

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 | 6300.00 | 100 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 | 6800.00 | 100 |

| 203 | Mavris | AD\_VP | 7500.00 | NULL | 101 | 40 | 7800.00 | 100 |

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 | 2600.00 | 100 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 | 5300.00 | 100 |

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

**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>4000 and salary<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=6000 or salary=6500 or salary=7000;

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

| EMPLOYEE\_ID | LAST\_NAME | JOB\_ID | SALARY | COMM\_PCT | MGR\_ID | DEPARTMENT\_ID | INCREASED\_SALARY | ONE\_TIME\_BONUS |

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

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 | 6300.00 | 100 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 | 6800.00 | 100 |

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

**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 in (10,20,30,50);**

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

| EMPLOYEE\_ID | LAST\_NAME | JOB\_ID | SALARY | COMM\_PCT | MGR\_ID | DEPARTMENT\_ID |INCREASED\_SALARY | ONE\_TIME\_BONUS |

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

| 198 | Connel | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 | 2900.00 | 100 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 | 2900.00 | 100 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 | 4700.00 | 100 |

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 | 6300.00 | 100 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 | 6800.00 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 | 3700.00 | 100 |

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

**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 | INCREASED\_SALARY | ONE\_TIME\_BONUS |

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

| 198 | Connel | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 | 2900.00 | 100 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 | 2900.00 | 100 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 | 4700.00 | 100 |

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 | 6300.00 | 100 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 | 6800.00 | 100 |

| 203 | Mavris | AD\_VP | 7500.00 | NULL | 101 | 40 | 7800.00 | 100 |

| 204 | Baer | AD\_PRES | 3500.00 | 1.50 | 101 | 90 | 3800.00 | 100 |

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 | 2600.00 | 100 |

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 | 9256.00 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 | 3700.00 | 100 |

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

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

* **select \* from employee where job\_id like '%clerk';**

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

| EMPLOYEE\_ID | LAST\_NAME | JOB\_ID | SALARY | COMM\_PCT | MGR\_ID | DEPARTMENT\_ID | INCREASED\_SALARY | ONE\_TIME\_BONUS |

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

| 198 | Connel | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 | 2900.00 | 100 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 | 2900.00 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 | 3700.00 | 100 |

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

**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;**

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

| EMPLOYEE\_ID | LAST\_NAME | JOB\_ID | SALARY | COMM\_PCT | MGR\_ID | DEPARTMENT\_ID | INCREASED\_SALARY | ONE\_TIME\_BONUS |

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

| 198 | Connel | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 | 2900.00 | 100 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 | 2900.00 | 100 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 | 4700.00 | 100 |

| 201 | Hartstein | GRADE\_A | 6000.00 | NULL | 100 | 20 | 6300.00 | 100 |

| 202 | Fay | GRADE\_A | 6500.00 | NULL | 210 | 20 | 6800.00 | 100 |

| 203 | Mavris | GRADE\_A | 7500.00 | NULL | 101 | 40 | 7800.00 | 100 |

| 204 | Baer | AD\_PRES | 3500.00 | 1.50 | 101 | 90 | 3800.00 | 100 |

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 | 2600.00 | 100 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 | 5300.00 | 100 |

| 100 | King | GRADE\_A | 8956.00 | 0.30 | 108 | 100 | 9256.00 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 | 3700.00 | 100 |

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

**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','AD\_ASST','IT\_PROG');**

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

| EMPLOYEE\_ID | LAST\_NAME | JOB\_ID | SALARY | COMM\_PCT | MGR\_ID | DEPARTMENT\_ID | INCREASED\_SALARY | ONE\_TIME\_BONUS |

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

| 198 | Connel | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 | 2900.00 | 100 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 | 2900.00 | 100 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 | 4700.00 | 100 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 | 5300.00 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 | 3700.00 | 100 |

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

**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 | INCREASED\_SALARY | ONE\_TIME\_BONUS |

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

| 198 | Connel | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 | 2900.00 | 100 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 | 2900.00 | 100 |

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

**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 |

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