1.Create table EMPLOYEE with the following details.

|  |  |
| --- | --- |
| **FIELD NAME** | **TYPE** |
| **EMPLOYEE\_ID** | **NUMBER (6)** |
| **LAST\_NAME** | **VARCHAR2(25)** |
| **JOB\_ID** | **VARCHAR2(10)** |
| **SALARY** | **NUMBER (8,2)** |
| **COMM\_PCT** | **NUMBER (4,2)** |
| **MGR\_ID** | **NUMBER (6)** |
| **DEPARTMENT\_ID** | **NUMBER (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 | double(8,2) | YES | | NULL | |

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

| Mgr\_Id | int | YES | | NULL | |

| Department\_id | int | YES | | NULL | |

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

2. Insert the following data into EMPLOYEE table.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EMPLOYEE**  **\_ID** | **LAST\_NAME** | **JOB\_ID** | **SALARY** | **COMM\_PCT** | **MGR\_ID** | **DEPARTMENT\_ID** |
| **198** | **Connell** | **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** |

insert into employee values (198, 'Connell', '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, 1.0, null, null);

Query OK, 11 rows affected (0.00 sec)

3.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 |

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

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 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 |

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

| 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 |

| 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 |

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

| Connell | 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 | 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 |

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

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.00 | NULL | NULL |

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

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 in(10,20,30,50);

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

| Employee\_Id | Last\_Name | Job\_Id | Salary | Comm\_pct | Mgr\_Id | Department\_id |

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

| 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 |

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

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 |

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

| 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 |

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

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.00 | NULL | NULL |

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

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 |

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

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

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

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.00 | NULL | NULL |

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

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 like '%clear' or Job\_Id like '%PROG%' or Job\_Id like '%ASST%';

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

| Employee\_Id | Last\_Name | Job\_Id | Salary | Comm\_pct | Mgr\_Id | Department\_id |

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

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

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

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

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

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

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;

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

| Employee\_Id | Last\_Name | Job\_Id | Salary | Comm\_pct | Mgr\_Id | Department\_id |

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

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

| 199 | 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 |

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