1. Create table Employee and Department with Department Id of Employee foreign key to table Department.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Employee | | | | |
| Id | Name | DepartmentId | Salary | Active |
| 1 | John | IT | 2000 | 1 |
| 2 | Sean | IT | 4000 | 1 |
| 3 | Eric | Admin | 2000 | 1 |
| 4 | Nancy | Admin | 2000 | 1 |
| 5 | Lee | HR | 3000 | 1 |
| 6 | Steven | Accounts | 2000 | 1 |
| 7 | Matt | IT | 5000 | 1 |
| 8 | Sarah | IT | 2000 | 0 |

|  |  |
| --- | --- |
| Department | |
| Id | Name |
| 1 | IT |
| 2 | Admin |
| 3 | HR |
| 4 | Accounts |
| 5 | Health |

1. Write a query to get employee list in ascending order of their salary.
2. Write a query to get distinct salary from Employee table.
3. Write a query to find total number of active employees.
4. Update the Department of Nancy to HR.
5. Write a query to get a record of employee with highest and second highest salary.
6. Write a query to get department name of each employee.
7. Write a query to get department name with maximum employee count.
8. Write a query to get departments where no Employee is assigned.
9. Write a query to get list of employee and salary with same salary.

**CREATE** **TABLE** Employee(

id **INT** **PRIMARY** **KEY**,

**name** **VARCHAR**(50) **NOT** **NULL**,

DepartmentId **VARCHAR** (100) **NOT** **null**,

Salary **INT**,

Active **INT**

);

**CREATE** **TABLE** Department(

id **INT** **PRIMARY** **KEY**,

**name** **VARCHAR**(50) **NOT** **NULL**

);

**INSERT** **INTO** Department(id, **name**)

**VALUES**

(1, 'IT'),

(2, 'Admin'),

(3, 'HR'),

(4, 'Accounts'),

(5, 'Health');

**select** \* **from** Department

**select** \* **from** Employee

**INSERT** **INTO** Employee(id, **name**,DepartmentId,Salary,Active)

**VALUES**

(1, 'John',1,2000,1),

(2, 'Sean',1,4000,1),

(3, 'Eric',2,2000,1),

(4, 'Nancy',2,2000,1),

(5, 'Lee',3,3000,1),

(6, 'Steven',4,2000,1),

(7, 'Matt',1,5000,1),

(8, 'Sarah',1,2000,0);

-- 2

**SELECT** \*

**FROM** Employee

**ORDER** **BY** salary **ASC**;

--3

**SELECT** **DISTINCT** salary **FROM** Employee;

--4

**SELECT** Active, **COUNT**(1)

**FROM** Employee

**GROUP** **BY** Active;

-- 5

**UPDATE** Employee

**SET** Departmentid ='HR'

**where** **name**='Nancy';

--6

**Select** \* **from** Employee **ORDER** **BY** salary **desc** **limit** 2;

--7

**select** e."name" , d."name" **from** employee e **join** department d **on** e.departmentid = d."name" ;

-- 8

**select** (**select** **max**(e.departmentid ) **from** employee e) ,**count**(\*) **from** employee e **where** e.departmentid =(**select** **max**(e.departmentid ) **from** employee e);

**select** e.departmentid ,**count**(\*) **from** employee e **group** **by** e.departmentid ;

--9

**SELECT** \* **FROM** department

**WHERE** **name**

**NOT** **IN** (**select** DepartmentId **FROM** employee);

--10

**SELECT** **Name**,salary

**FROM** employee

**WHERE** Salary **IN** (

**SELECT** Salary

**FROM** employee

**GROUP** **BY** Salary

**HAVING** **COUNT**(\*) > 1

)