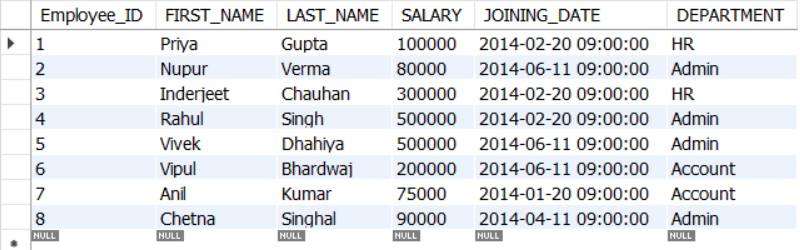
**Employee (Employee\_ID is P.K)**



Create table Employee

(

Employee\_ID int Identity(1,1) primary key,

FIRST\_NAME varchar(50) not null,

LAST\_NAME varchar(50) not null,

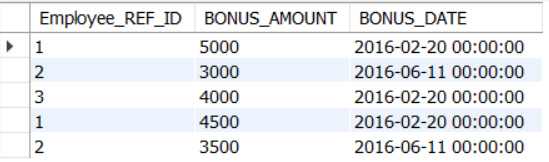
SALARY int not null,

JOINING\_DATE datetime not null,

DEPARTMENT varchar(25) not null

)

**Bonus (Employee\_Ref\_ID is F.K)**



create table Bonus

(

Employee\_REF\_ID int,

BONUS\_AMOUNT int,

BONUS\_DATE datetime,

foreign key (Employee\_REF\_ID) references Employee(Employee\_ID)

)

**Title (Employee\_Ref\_ID is F.K)**



create table Title

(

Employee\_REF\_ID int,

Employee\_TITLE varchar(25),

AFFECTED\_FROM datetime,

foreign key (Employee\_REF\_ID) references Employee(Employee\_a)

)

**You are required to create the above tables along with P.K and F.K constraints and then write the queries for the following questions**

#### **Find the First Record From Employee Table with all the text data in the Upper Case?**

select top(1) Employee\_ID,Upper(FIRST\_NAME),Upper(LAST\_NAME),SALARY,

JOINING\_DATE,UPPER(DEPARTMENT)

from Employee

#### **Select the record of a person who has highest salary in the Employee?**

select \* from Employee

#### where Salary = (Select MAX(Salary) from Employee)

#### **Write a query to find out duplicate records from the Employee**

with duplicateCTE as

(select \*,ROW\_NUMBER() over(Partition by FIRST\_NAME,LAST\_NAME,SALARY order by Employee\_ID) as Emp

from Employee

)

select \* from duplicateCTE

where Emp > 1

#### **Find the Last Record From The Employee Table?**

select top(1) \* from Employee

#### order by Employee\_ID desc

#### **Find the Last 3 Records From Employee Table?**

select top(3) \* from Employee

#### order by Employee\_ID desc

#### **Get 3 Highest Salaries From Employee Table?**

select top(3) \* from Employee

#### order by Salary desc

#### **List the department names of the Employee Table**

select distinct(DEPARTMENT) from Employee

#### **Display Odd Rows In EmployeeTable?**

select \* from Employee

#### where Employee\_ID % 2 = 0

#### **Display First Three Characters Of  FIRSTNAME From Employee Table.**

select Left(FIRST\_NAME,3) from Employee

#### **Display the fullName by combining FirstName and LastName column along with the space between the FirstName and LastName**

select concat(FIRST\_NAME,' ',LAST\_NAME) FULL\_NAME from Employee

#### **Display the employees in their sorted order by department in ascending and then by salary in descending order**

select \* from Employee

#### order by DEPARTMENT asc, SALARY desc

#### **Display From Employees With The First Name As “Vipul” And “Vivek” From EmployeeTable.**

select \* from Employee

#### where FIRST\_NAME in ('Vipul','Vivek')

#### **Display the list of employees who has joined in Feb 2014**

select \* From Employee

#### where Month(JOINING\_DATE) = 02 and Year(JOINING\_DATE) = 2014

#### **Display all the columns along with the running total by salary for each department from the employee table**

select \*,Sum(SALARY) over(Partition by Department

order by EMPLOYEE\_ID range between unbounded preceding and current row) as Running\_Total

#### from Employee

#### **Display all the employees who never got the bonus using the Exists Clause**

select \*

from Employee e

where not exists (select Employee\_REF\_ID from Bonus b

#### where e.Employee\_ID = b.Employee\_REF\_ID)

#### **Display the 5th highest salary from the employee table**

select top(1) \* from

(

select top(5) \* from Employee order by salary desc) as T

#### order by T.SALARY

#### **Display the list of employees who have same salary**

select e1.Employee\_ID,e1.FIRST\_NAME,e1.LAST\_NAME,e1.Salary

from employee e1 inner join employee e2

on e1.SALARY = e2.SALARY and e1.FIRST\_NAME != e2.FIRST\_NAME

#### and e1.LAST\_NAME != e2.LAST\_NAME

#### **Display the FirstName,LastName ,Employeetitle who have got the bonus of more than 4000**

select distinct e.FIRST\_NAME,e.LAST\_NAME,t.Employee\_TITLE

from Employee e inner join Title t

on e.Employee\_ID = t.Employee\_REF\_ID

inner join Bonus b

on e.Employee\_ID = b.Employee\_REF\_ID

#### where b.BONUS\_AMOUNT > 4000

#### **List the highest salary based on employetitle along with employee fullName**

with cte as

(

select CONCAT(FIRST\_NAME,' ',LAST\_NAME) Full\_Name,Employee\_TITLE,SALARY

from Employee e inner join Title t

on e.Employee\_ID = t.Employee\_REF\_ID

)

select \* from cte where Salary = any(

select MAX(Salary) Salary from cte group by Employee\_TITLE

)