1. Create a Table ‘Employees’ in Company Database with Column Names EmpID(PK,smallint),Emp\_FirstName(nchar(20),Emp\_LastName(nchar(20),Emp\_City(nchar(20),DOJ(date),Salary(money),DID(FK,smallint),BID(FK,smallint).

create table Employees(

EmpId smallint primary key,

Emp\_FirstName nchar(10),

Emp\_LastName nchar(10),

Emp\_city nchar(20),

DOJ datetime,

Salary money,

DID smallint references dbo.department,

Bid smallint references dbo.branches

)

Commands completed successfully.

Completion time: 2023-04-23T23:39:28.6648849+05:30

2. Insert 15-20 Records in Employees Table with all department (except Info department) and all branches covered by at least one employee working in each department. Give joining date from 2015 to 2021.

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(102,'KL','Rahul','Bengaluru','2017-2-13',30000,1,2)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(103,'Rohit','Sharma','Mumbai','2015-4-6',400000,3,1)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(101,'Mayank','Agarwal','Bengaluru','2016-12-25',30000,1,1)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(104,'Virat','Kohili','Delhi','2018-6-21',100000,2,2)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(105,'Ruthraj','Gaikwad','Chennai','2019-8-8',20000,4,3)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(106,'Yashaswi','Jaiswal','Rajasthan','2021-12-05',20000,4,3)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(107,'Yuzvender','Chahal','Delhi','2021-3-13',40000,5,2)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(108,'Jaspristh','Bumrah','Mumbai','2020-2-28',35000,3,1)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(109,'Devdutt','Padikkal','Bengaluru','2021-3-10',20000,5,4)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(110,'Venkatesh','Iyer','Kolkatta','2018-9-26',26000,5,4)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(111,'Ishan','Kishan','Bengaluru','2021-3-10',20000,2,1)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(112,'T','Natrajan','Chennai','2021-11-8',70000,4,3)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(113,'Shardul','Takur','Chennai','2017-12-1',45000,5,3)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(114,'Prithvi','Shaw','Chennai','2018-1-12',75000,3,2)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

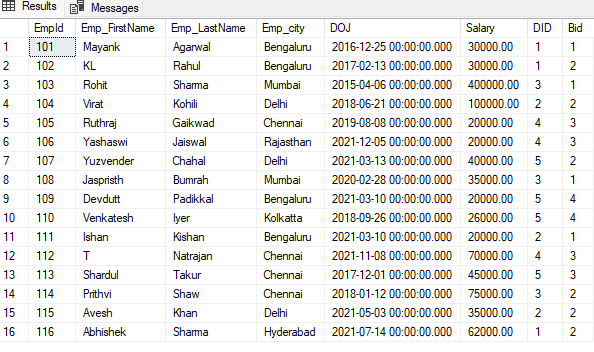
values

(115,'Avesh','Khan','Delhi','2021-5-3',35000,2,2)

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(116,'Abhishek','Sharma','Hyderabad','2021-7-14',62000,1,2)



3. Select all employees who joined in year 2021. For display purpose merge their First Name and Last Name with space in between two names to display as FullName.

select Emp\_FirstName+' '+Emp\_LastName as FullName,DOJ

from Employees

where year(DOJ)='2021'

Yashaswi Jaiswal 2021-12-05 00:00:00.000

Yuzvender Chahal 2021-03-13 00:00:00.000

Devdutt Padikkal 2021-03-10 00:00:00.000

Ishan Kishan 2021-03-10 00:00:00.000

T Natrajan 2021-11-08 00:00:00.000

Avesh Khan 2021-05-03 00:00:00.000

Abhishek Sharma 2021-07-14 00:00:00.000

4. Select all employees working in Software department who joined before the year 2021.

select EmpId,Emp\_FirstName,Emp\_LastName,d.dept\_name,DOJ

from Employees e inner join department d

on e.DID=d.dept\_id

where d.dept\_name='Software' and year(DOJ)<2021

104 Virat Kohili Software 2018-06-21 00:00:00.000

5. Select all employees working in 'Mumbai' branch.

select EmpId,Emp\_FirstName,Emp\_LastName

from Employees e inner join branches b

on e.Bid=b.bid

where b.branch\_name='Mumbai'

101 Mayank Agarwal

103 Rohit Sharma

108 Jaspristh Bumrah

111 Ishan Kishan

6. Select all employees working in Software department of Mumbai branch who joined before the year 2021 withdrawing salary less than 15000

select EmpId,Emp\_FirstName,Emp\_LastName

from Employees e inner join branches b on e.Bid=b.bid

inner join department d on e.DID=d.dept\_id

where

d.dept\_name='Software' and b.branch\_name='mumbai' and year(e.DOJ)<2021 and Salary<15000

(No record found)

7. Select all employee names and their department names. This list should display those departments also where no employee is working.

insert into Employees(EmpId,Emp\_FirstName,Emp\_LastName,Emp\_city,DOJ,Salary,DID,Bid)

values

(117,'Abhishek','Sharma','Hyderabad','2021-7-14',62000,null,2)

select ,Emp\_FirstName,Emp\_LastName,dept\_name

from Employees e left join department d

on e.DID=d.dept\_id

101 Mayank Agarwal HRD

102 KL Rahul HRD

103 Rohit Sharma Admin

104 Virat Kohili Software

105 Ruthraj Gaikwad Finance

106 Yashaswi Jaiswal Finance

107 Yuzvender Chahal security

108 Jaspristh Bumrah Admin

109 Devdutt Padikkal security

110 Venkatesh Iyer security

111 Ishan Kishan Software

112 T Natrajan Finance

113 Shardul Takur security

114 Prithvi Shaw Admin

115 Avesh Khan Software

116 Abhishek Sharma HRD

117 Abhishek Sharma NULL

8. After seeing this report that no employee has joined, Info department company decides to shut Info department. Do the needful now with SQL query.

delete from department where dept\_name='info'

(1 row affected)

Completion time: 2023-04-24T01:14:35.2635043+05:3

select \* from department

1 HRD

2 Software

3 Admin

4 Finance

5 security