BCIS5420.003 Assignment-3 Team 27

Team Member list:

- Nivith Avula-11594234
- Vinod Paul Saka-11558146
- Anirudh Bussa-11563583
- Sai Nithin Maipath-11611496
- Madaram Joel-11534556

EUID: ab1583

Date: 4/2/2023,4/1/2023

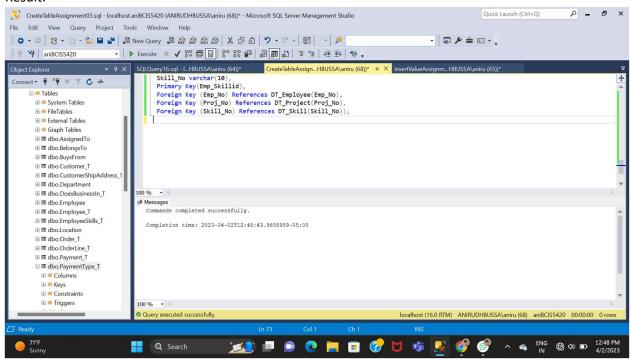
Create Table Queries:

```
create Table DT Vendor(
       Vendor Id Varchar(20),
      Vendor Name Varchar(50),
       Vendor_Address VarChar(60),
       Primary Key (Vendor Id));
Create Table DT Department(
Dept Name varchar(20),
Dept Phone varchar(12)
Primary Key (Dept_Name)
);
Create Table DT BuysFrom(
Vendor Id VarChar(20),
Dept Name Varchar(20),
Primary Key (Vendor_Id , Dept_Name),
Foreign Key (Vendor_Id) References DT_Vendor(Vendor_Id),
Foreign Key (Dept_Name) References DT_Department(Dept_Name));
Create Table DT_Skill(
Skill No varchar(10),
Skill Description varchar(50),
Primary Key (Skill_No));
Create Table DT_Project(
      Proj_No varchar(10),
       Project Name varchar(50),
       Proj_Est_Cost integer,
       Primary key (Proj_No));
Create Table DT_Employee(
Emp No Varchar(10),
EmpFirstName Varchar(20),
EmpLastName Varchar(20),
Emp Title Varchar(25),
Emp DoB date,
Primary Key (Emp_No));
Create Table DT_Location(
Loc_id varchar(10),
Loc city varchar(20),
Loc state varchar(2),
Loc_Population varchar(10),
Primary Key (Loc_id));
Create Table DT BelongsTo(
Emp No varchar(10),
Dept Name Varchar(20),
Primary Key (Emp_No,Dept_Name),
 Foreign Key (Emp No) references DT Employee(Emp No),
 Foreign Key (Dept Name) references DT Department(Dept Name));
 Create Table DT AssignedTo(
 Emp No varchar(10),
```

```
Proj_No varchar(10),
Loc_id varchar(10),
Primary Key (Emp_No,Proj_No ,Loc_id),
Foreign Key (Emp_No) References DT_Employee(Emp_No),
Foreign Key (Proj_No) References DT_Project(Proj_No),
Foreign Key (Loc_id) References DT_Location(Loc_id));

Create table DT_EmpSkills(
Emp_Skillid varchar(10),
Emp_No varchar(10),
Proj_No varchar(10),
Skill_No varchar(10),
Primary Key(Emp_Skillid),
Foreign Key (Emp_No) References DT_Employee(Emp_No),
Foreign Key (Proj_No) References DT_Project(Proj_No),
Foreign Key (Skill_No) References DT_Skill(Skill_No));
```

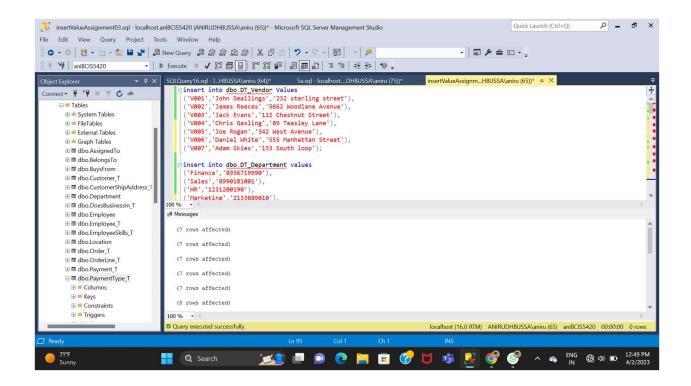
Result:



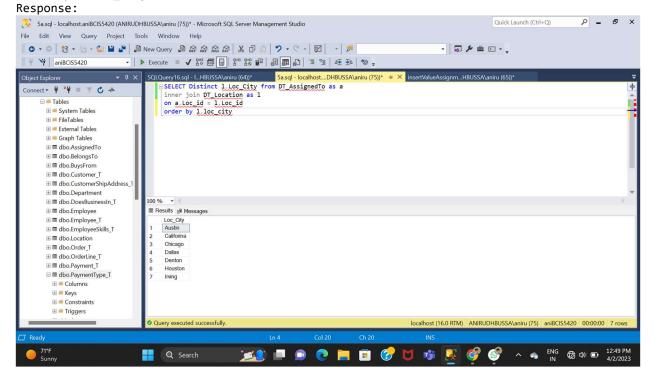
Insert Sql queries for the tables:

```
insert into dbo.DT Vendor Values
('V001','John Smallings','232 sterling street'),
('V002','James Reeces','5662 Woodlane Avenue'),
('V003','Jack Evans','112 Chestnut Street'),
('V004', 'Chris Gasling', '89 Teasley Lane'),
('V005','Joe Rogan','342 West Avenue'),
('V006', 'Daniel White', '555 Manhattan Street'),
('V007', 'Adam Skies', '133 South loop');
insert into dbo.DT Department values
('Finance', '8936719990'),
('Sales','8990181001'),
('HR','1231200190'),
('Marketing','2133889010'),
 ('IT Dept', '8920108100'),
 ('Customer Care', '7829001001'),
 ('Board','6789001010');
insert into dbo.DT BuysFrom values
('V001','Finance'),
('V002','Sales'),
('V001','Marketing'),
('V003','HR'),
('V004','IT Dept'),
('V003', 'Customer Care'),
('V005', 'Sales');
insert into dbo.DT_Skill values
('1','Writing Skill'),
('2', 'Report Writing'),
('3', 'Good Excel Skills'),
('4','Documentation Skills'),
('5','Strategical Marketing'),
('6', 'Accounting Skills'),
('7', 'Tally Skills');
insert into dbo.DT_Project values
('PR001', 'Product Marketing', 140000),
('PR002', 'Adverstiment Research', 2000000),
('PR003','Employee Recuritment',1000000),
('PR004','Auditing',2500000),
('PR005', 'Inventory Managment', 2000000),
('PR006', 'Sales Management', 5000000),
('PR007','Vendor Management',3500000);
insert into dbo.DT_Employee values
('100','Mark', 'Myers','Marketing Manager','1980-04-20'),
('110','Anna','Franklin','Junior Marketing person','1996-05-05'),
('120','Greg','Bushman','Sr. Marketing Head','1986-11-24'),
('200','John','Clarke','HR Manager','1989-12-12'),
('300','Jackson','Wang','Sales Manager','1990-01-23'),
('301','Chris','Evans','Junior Sale person','1999-03-14'),
('401', 'Shane', 'Watson', 'Finance Manager', '1978-07-12'),
('210','Chris','Gayle','Junior Hr Assitant','1995-04-20');
insert into dbo.DT Location values
('001','Denton','TX','300,000'),
```

```
('002','Irving','TX','350,000'),
('003','Dallas','TX','400,000'),
('004','Chicago','IL','1,200,000'),
('005','Califorina','LA','2,500,000'),
('006','Houston','TX','220,000'),
('007','Austin','TX','400,000');
insert into dbo.DT BelongsTo values
('401','Finance'),
('100', 'Marketing'),
('110', 'Marketing'),
 ('110', Marketing'),
('120', 'Marketing'),
('200', 'HR'),
('300', 'Sales'),
('301', 'Sales');
  insert into dbo.DT_AssignedTo values
  ('100', 'PR001', '001'),
  ('110','PR001','001'),
('120','PR002','002'),
('200','PR003','004'),
('300','PR005','006'),
  ('301','PR006','003'),
  ('401','PR004','005'),
  ('210', 'PR007', '007');
  insert into dbo.DT_EmpSkills values
('Sk001','100','PR001','1'),
('Sk002','100','PR001','2'),
('Sk003','100','PR001','5'),
('Sk004','110','PR001','3'),
('Sk005','120','PR002',Null),
('Sk006','200','PR003','1'),
('Sk007','401','PR004','6'),
('SK008','300','PR005','4'),
('SK009','301','PR006','5'),
('SK010','210','PR007','2');
```

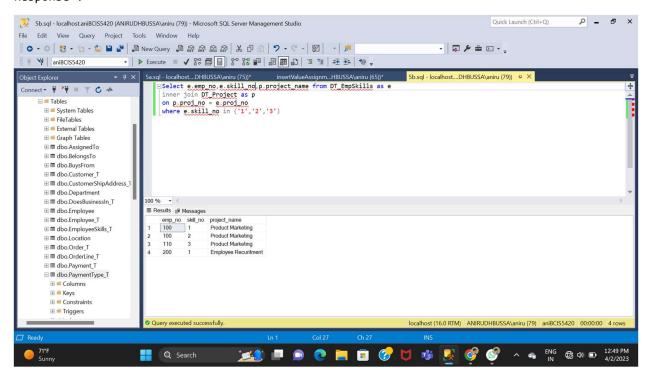


5a. SELECT Distinct 1.Loc_City from DT_AssignedTo as a
inner join DT_Location as 1
on a.Loc_id = 1.Loc_id
order by 1.loc_city

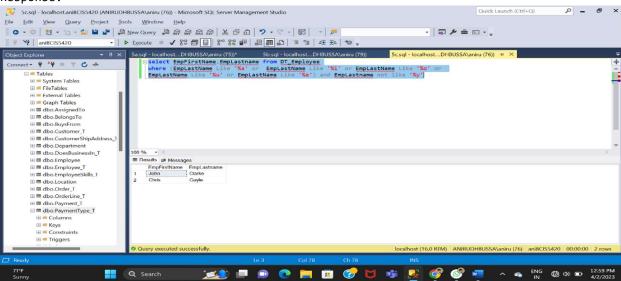


5b. Select e.emp_no,e.skill_no,p.project_name from DT_EmpSkills as e

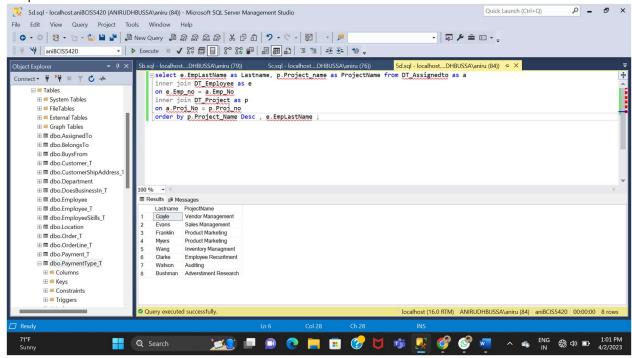
```
inner join DT_Project as p
on p.proj_no = e.proj_no
where e.skill_no in ('1','2','3')
Response :
```



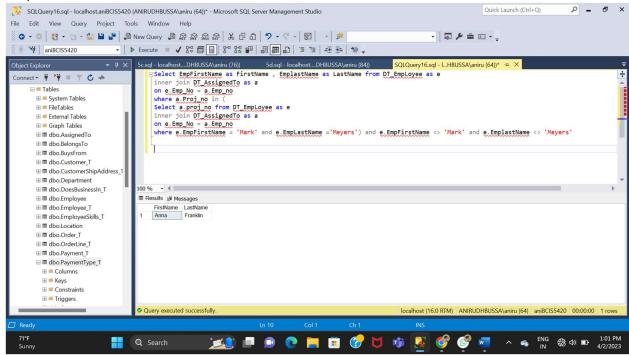
5c: select EmpFirstName,EmpLastname from DT_Employee
where (EmpLastName Like '%a' or EmpLastName Like '%i' or EmpLastName Like '%o' or
EmpLastName Like '%u' or EmpLastName Like '%e') and EmpLastname not like '%y'



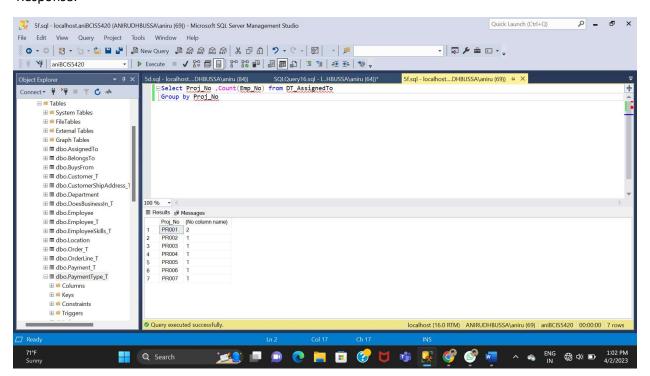
```
5d. select e.EmpLastName as Lastname, p.Project_name as ProjectName from DT_Assignedto as
a
inner join DT_Employee as e
on e.Emp_no = a.Emp_No
inner join DT_Project as p
on a.Proj_No = p.Proj_no
order by p.Project Name Desc , e.EmpLastName ;
```



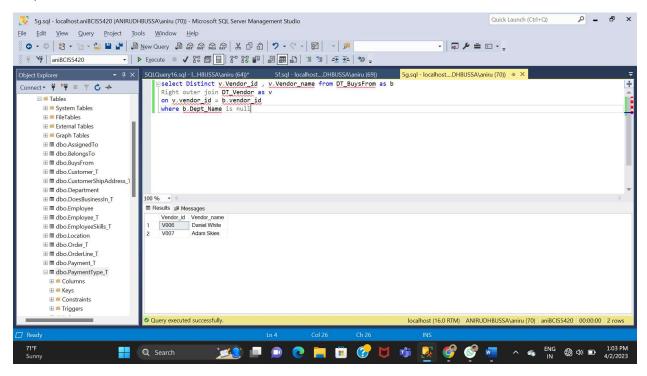
```
5e: Select EmpFirstName as FirstName , EmplastName as LastName from DT_EmpLoyee as e
inner join DT_AssignedTo as a
on e.Emp_No = a.Emp_no
where a.Proj_no in (
Select a.proj_no from DT_EmpLoyee as e
inner join DT_AssignedTo as a
on e.Emp_No = a.Emp_no
where e.EmpFirstName = 'Mark' and e.EmpLastName = 'Meyers') and e.EmpFirstName <> 'Mark'
and e.EmplastName <> 'Meyers'
```



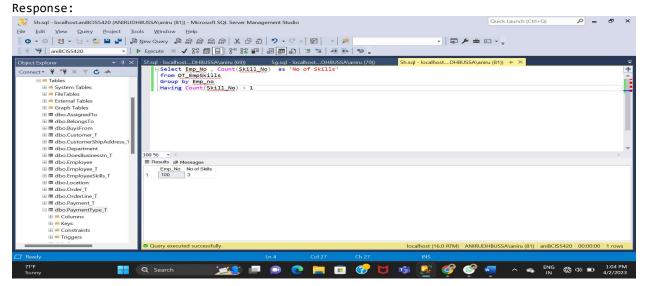
5f: Select Proj_No ,Count(Emp_No) from DT_AssignedTo
Group by Proj_No



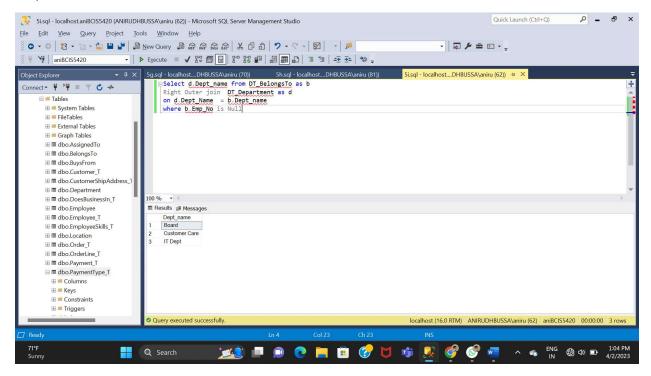
```
5g: select Distinct v.Vendor_id , v.Vendor_name from DT_BuysFrom as b
Right outer join DT_Vendor as v
on v.vendor_id = b.vendor_id
where b.Dept_Name is null
```



```
5h: Select Emp_No , Count(Skill_No) as 'No of Skills'
from DT_EmpSkills
Group by Emp_no
Having Count(Skill_No) > 1
```



```
5i: Select d.Dept_name from DT_BelongsTo as b
Right Outer join DT_Department as d
on d.Dept_Name = b.Dept_name
where b.Emp_No is Null
```



5j: select Distinct Skill_Description from DT_Skill as s
inner join DT_EmpSkills as e
on e.Skill_No = s.Skill_No
Response:

