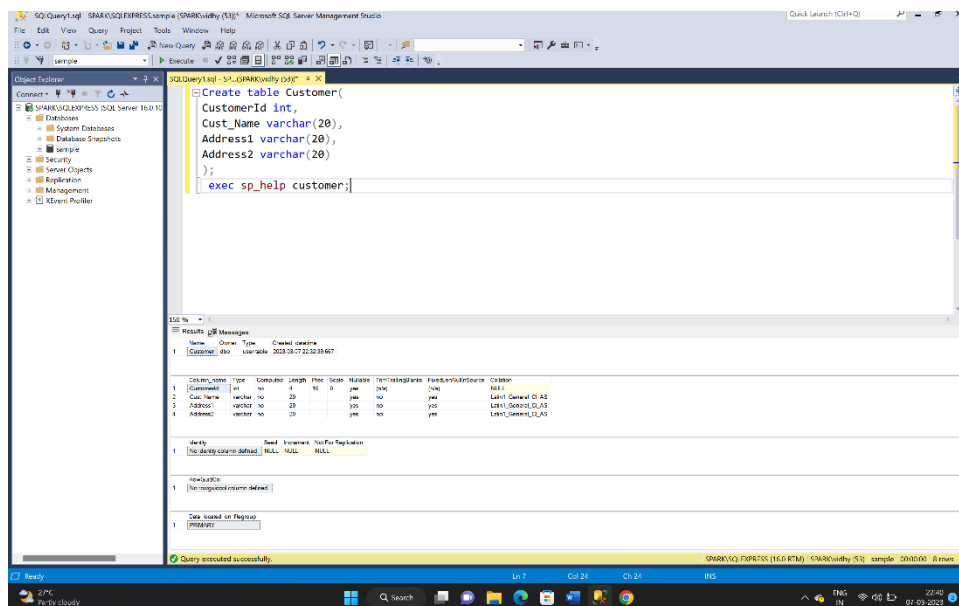


## Write queries for the following

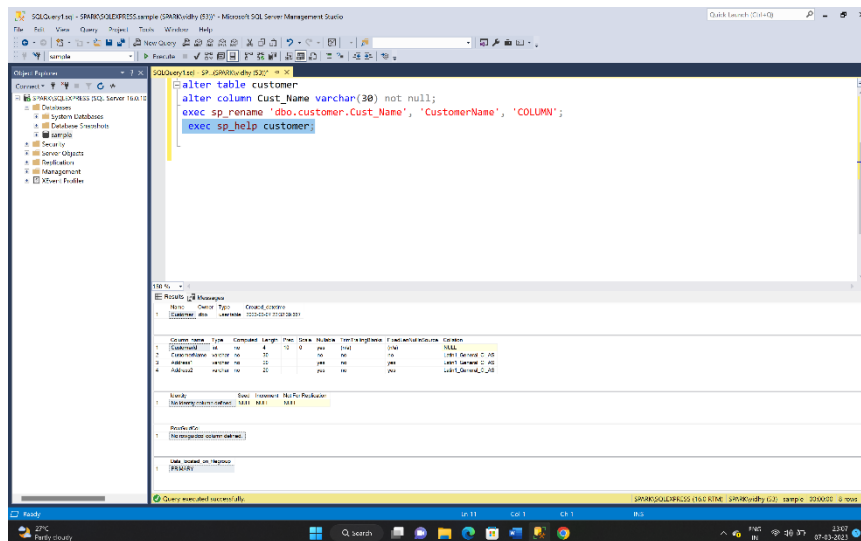
1. Create the Customer table with the following columns.  
CustomerId Number(5)  
Cust\_Name varchar2(20)  
Address1 Varchar2(30)  
Address2 Varchar2(30)

```
Create table Customer
(
CustomerId int,
Cust_Name varchar(20),
Address1 varchar(20),
Address2 varchar(20)
);
```



2. Modify the Customer table Cust\_Name column of datatype with Varchar2(30), rename the column to CustomerName and it should not accept Nulls.

```
alter table customer
alter column Cust_Name varchar(30) not null;
exec sp_rename 'dbo.customer.Cust_Name', 'CustomerName', 'COLUMN';
exec sp_help customer;
```



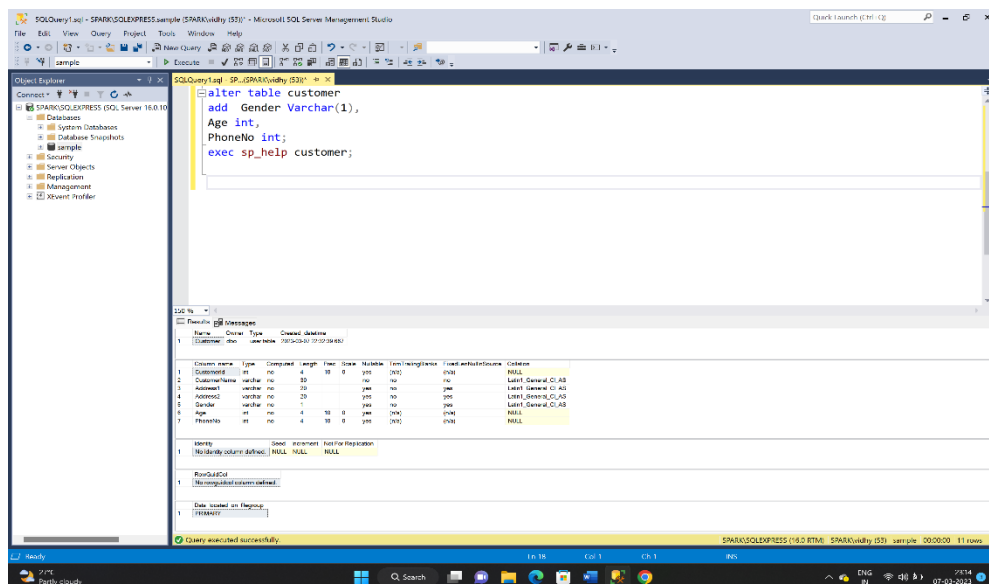
3. Add the following Columns to the Customer table.

Gender Varchar2(1)

Age Number(3)

PhoneNo Number(10)

```
alter table customer
add Gender Varchar(1),
Age int,
PhoneNo int;
exec sp_help customer;
```

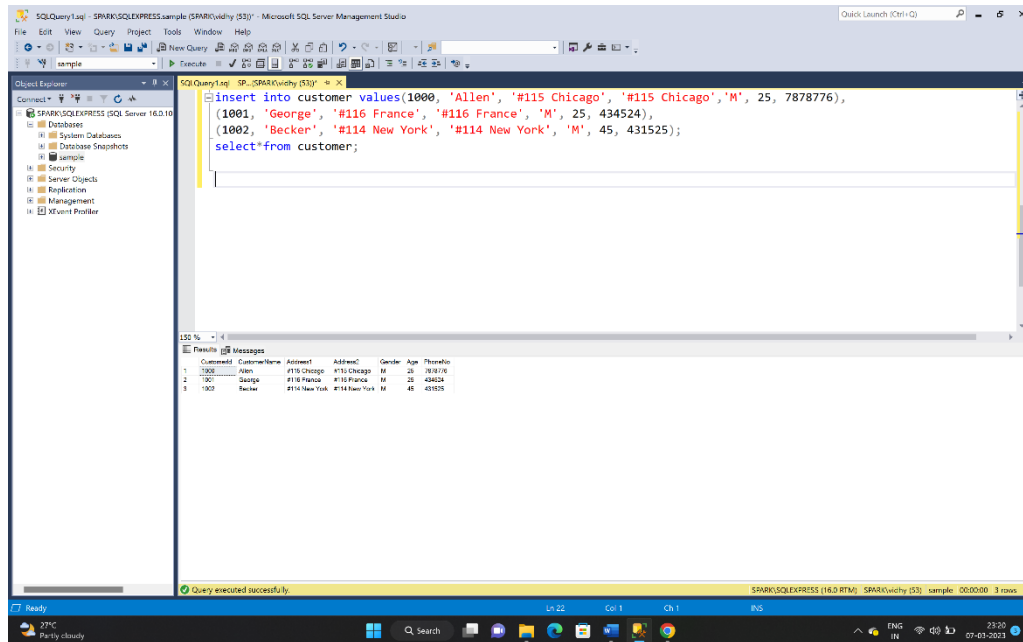


4. Add the below records to the Customer table:  
 (1000, 'Allen', '#115 Chicago', '#115 Chicago', 'M', '25, 7878776')  
 1000, Allen, #115 Chicago, #115 Chicago, M, 25, 7878776  
 1001, George, #116 France, #116 France, M, 25, 434524  
 1002, Becker, #114 New York, #114 New York, M, 45, 431525

```

insert into customer values(1000, 'Allen', '#115 Chicago', '#115 Chicago','M', 25,
7878776),
(1001, 'George', '#116 France', '#116 France', 'M', 25, 434524),
(1002, 'Becker', '#114 New York', '#114 New York', 'M', 45, 431525);
select*from customer;

```

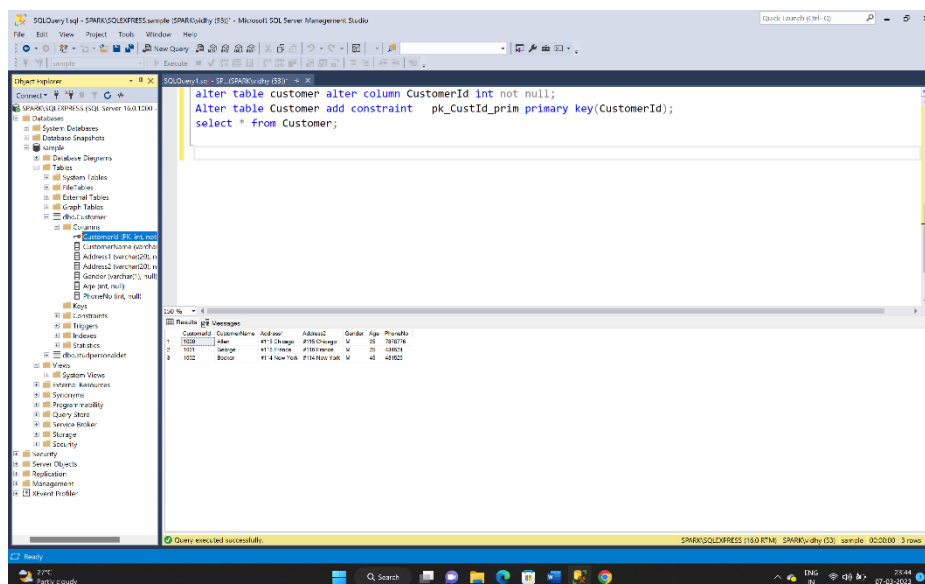


5. Add the Primary key constraint for CustomerId with the name CustId\_Prim.

```

alter table customer alter column CustomerId int not null;
Alter table Customer add constraint pk_CustId_prim primary key(CustomerId);
select * from Customer;

```

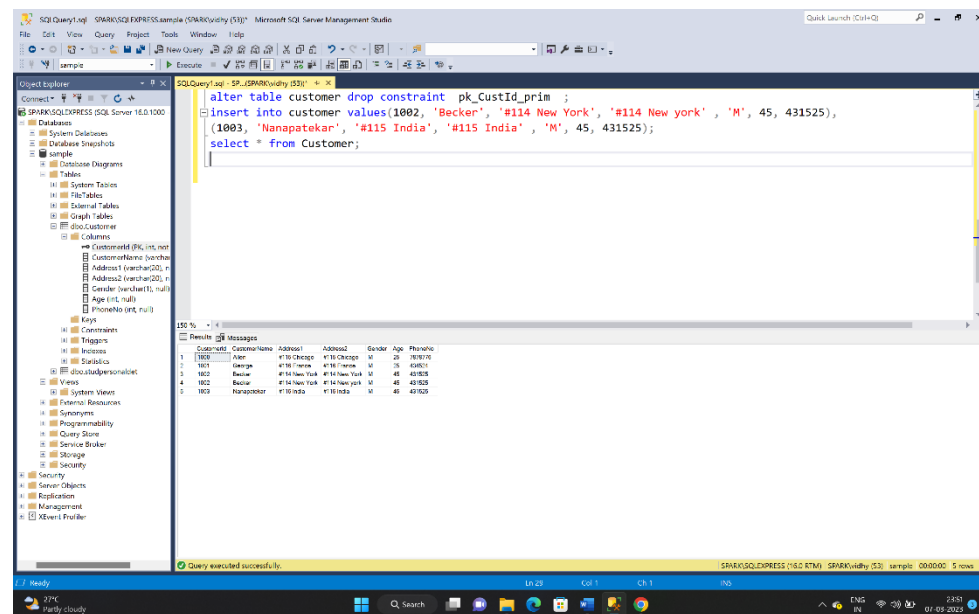


6. a) Disable the constraint on CustomerId, and insert the following data:  
1002, Becker, #114 New York, #114 New York, M, 45, 431525

1003, Nanapatekar, #115 India, #115 India , M, 45, 431525

b) Drop the constraint CustId\_Prim on CustomerId and insert the following Data.

```
alter table customer drop constraint pk_CustId_prim ;
insert into customer values(1002, 'Becker', '#114 New York', '#114 New york' ,
'M', 45, 431525),
(1003, 'Nanapatekar', '#115 India', '#115 India' , 'M', 45, 431525);
select * from Customer;
```

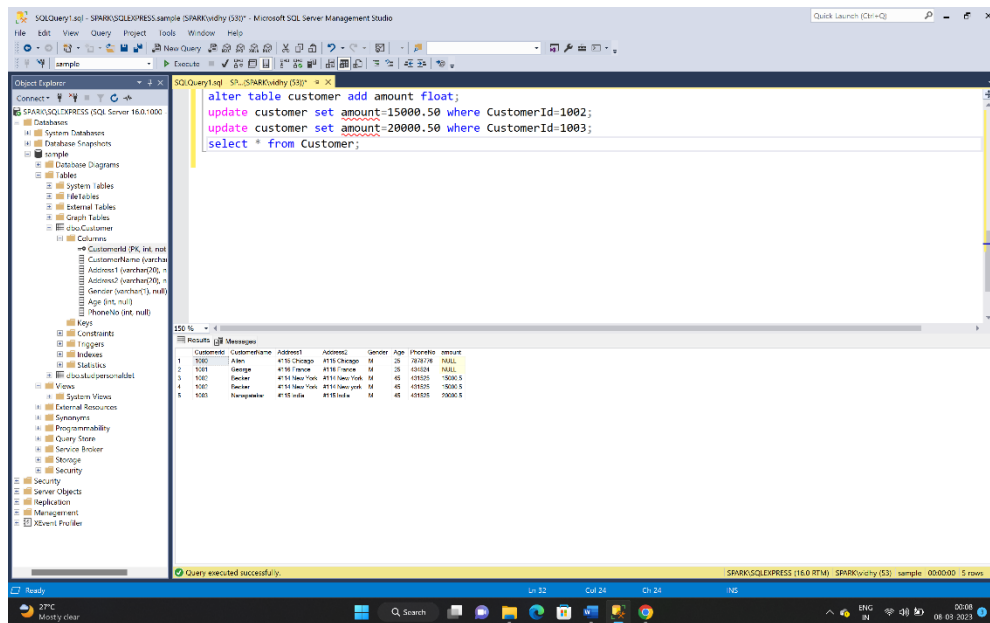


7. Alter Customer table, drop constraint Custid\_Prim.

1002, Becker, #114 New York, #114 New york , M, 45, 431525, 15000.50

1003, Nanapatekar, #115 India, #115 India , M, 45, 431525, 20000.50

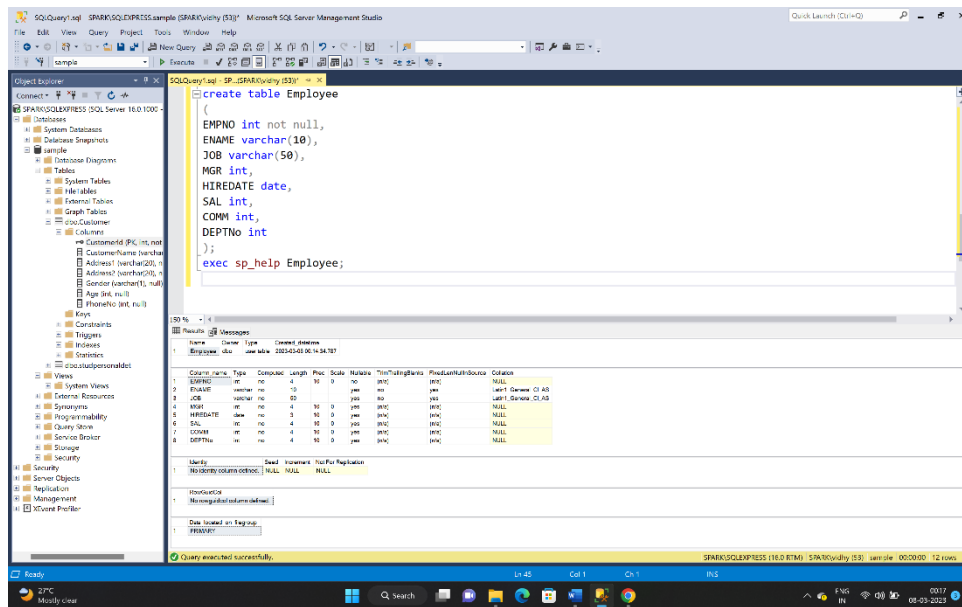
```
alter table customer add amount float;
update customer set amount=15000.50 where CustomerId=1002;
update customer set amount=20000.50 where CustomerId=1003;
select * from Customer;
```



8. Create Employee table with same structure as EMP table.

Name	Null?	Type
EMPNO	NOT NULL	NUMBER(4)
ENAME		VARCHAR2(10)
JOB		VARCHAR2(50)
MGR		NUMBER(4)
HIREDATE		DATE
SAL		NUMBER(7,2)
COMM		NUMBER(7,2)
DEPTNO		NUMBER(2)

```
create table Employee
(
EMPNO int not null,
ENAME varchar(10),
JOB varchar(50),
MGR int,
HIREDATE date,
SAL int,
COMM int,
DEPTNo int
);
exec sp_help Employee;
```

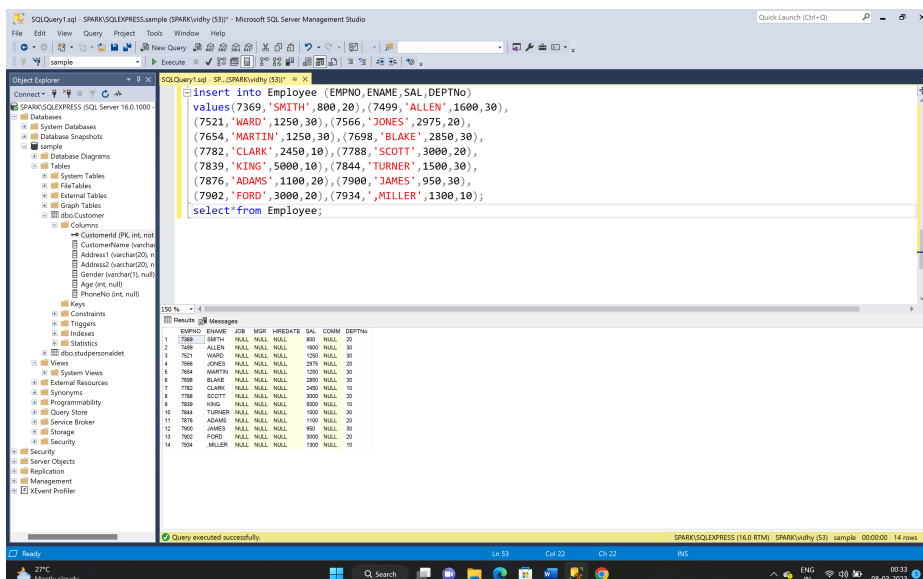


## 9. Insert the following data in the above table

```

insert into Employee (EMPNO,ENAME,SAL,DEPTNo)
values(7369, 'SMITH',800,20), (7499, 'ALLEN',1600,30),
(7521, 'WARD',1250,30), (7566, 'JONES',2975,20),
(7654, 'MARTIN',1250,30), (7698, 'BLAKE',2850,30),
(7782, 'CLARK',2450,10), (7788, 'SCOTT',3000,20),
(7839, 'KING',5000,10), (7844, 'TURNER',1500,30),
(7876, 'ADAMS',1100,20), (7900, 'JAMES',950,30),
(7902, 'FORD',3000,20), (7934, 'MILLER',1300,10);
select*from Employee;

```



10. Write a query to populate Employee table using EMP table's empno, ename, sal,, deptno columns.

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH				800		20
7499	ALLEN				1600		30
7521	WARD				1250		30
7566	JONES				2975		20
7654	MARTIN				1250		30
7698	BLAKE				2850		30
7782	CLARK				2450		10
7788	SCOTT				3000		20
7839	KING				5000		10
7844	TURNER				1500		30
7876	ADAMS				1100		20
7900	JAMES				950		30
7902	FORD				3000		20
7934	MILLER				1300		10

Select \* from Employee;

SQLQuery1.sql - SPARK/SQL/EXPRESS.sample (SPARK/vidhy (53)) - Microsoft SQL Server Enterprise Manager

Object Explorer: SPARK/SQL/EXPRESS (SQL Server 16.0.1000) > Databases > sample > Tables > Employee

SQLQuery1.sql - SPARK/vidhy (53):

```
Insert into Employee (EMPNO, ENAME, SAL, DEPTNo)
values(7369, 'SMITH', 800, 20), (7499, 'ALLEN', 1600, 30),
(7521, 'WARD', 1250, 30), (7566, 'JONES', 2975, 20),
(7654, 'MARTIN', 1250, 30), (7698, 'BLAKE', 2850, 30),
(7782, 'CLARK', 2450, 10), (7788, 'SCOTT', 3000, 20),
(7839, 'KING', 5000, 10), (7844, 'TURNER', 1500, 30),
(7876, 'ADAMS', 1100, 20), (7900, 'JAMES', 950, 30),
(7902, 'FORD', 3000, 20), (7934, 'MILLER', 1300, 10);

select * from Employee;
```

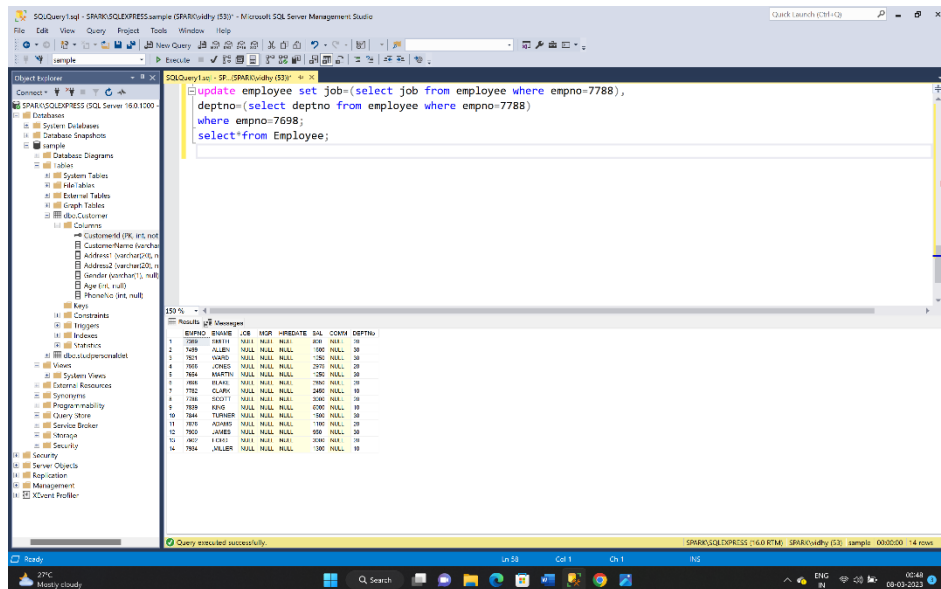
Results: 14 rows

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH				800		20
7499	ALLEN				1600		30
7521	WARD				1250		30
7566	JONES				2975		20
7654	MARTIN				1250		30
7698	BLAKE				2850		30
7782	CLARK				2450		10
7788	SCOTT				3000		20
7839	KING				5000		10
7844	TURNER				1500		30
7876	ADAMS				1100		20
7900	JAMES				950		30
7902	FORD				3000		20
7934	MILLER				1300		10

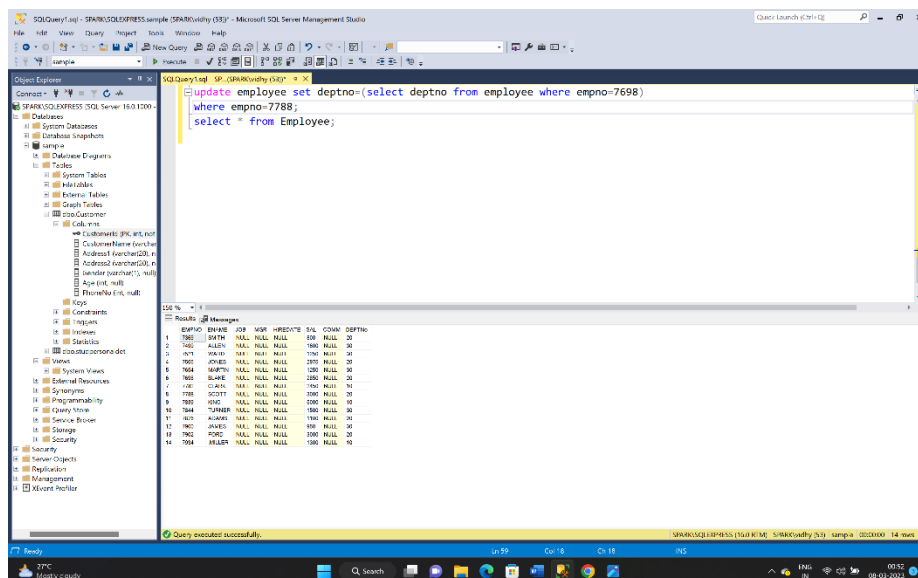
Query executed successfully. SPARK/SQL/EXPRESS (16.0 RTM) SPARK/vidhy (53) sample 00:00:00 14 rows

11. a. Write a query to change the job and deptno of employee whose empno is 7698 to the job and deptno of employee having empno 7788.
- b. Write a query to change the deptno of employee with empno 7788 to that of employee having empno 7698.

A). `update employee set job=(select job from employee where empno=7788),  
deptno=(select deptno from employee where empno=7788)  
where empno=7698;  
select * from Employee;`



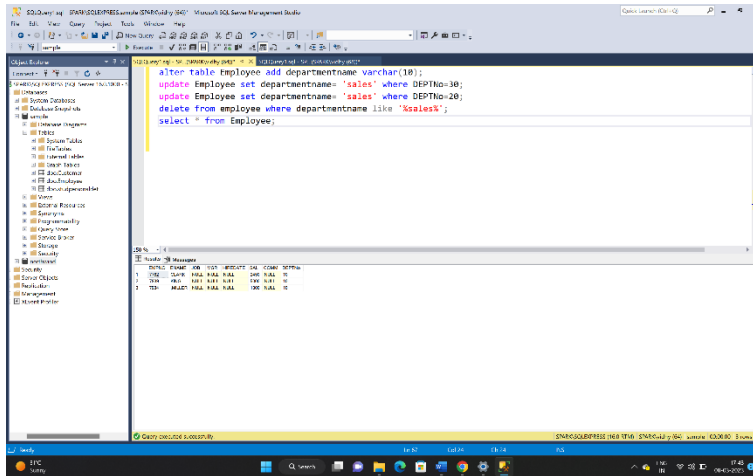
B). `update employee set deptno=(select deptno from employee where empno=7698)  
where empno=7788;  
select * from Employee;`



12. Delete the details of department whose department name is 'SALES'.

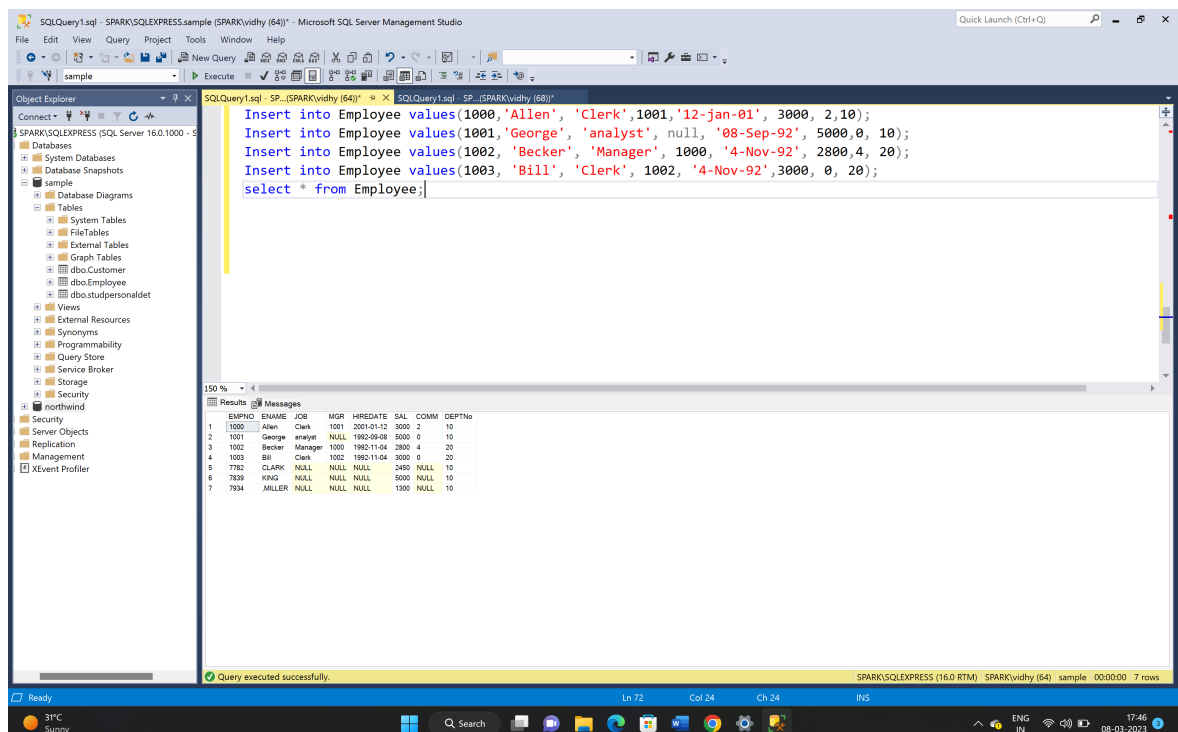
```
alter table Employee add departmentname varchar(10);
update Employee set departmentname= 'sales' where DEPTNo=30;
update Employee set departmentname= 'sales' where DEPTNo=20;
delete from employee where departmentname like '%sales%';
select * from Employee;
```





13. Insert the following rows to the Employee table  
 1000,Allen, Clerk,1001,12-jan-01, 3000, 2,10  
 1001,George, analyst, null, 08 Sep 92, 5000,0, 10  
 1002, Becker, Manager, 1000, 4 Nov 92, 2800,4, 20  
 1003, 'Bill', Clerk, 1002, 4 Nov 92,3000, 0, 20

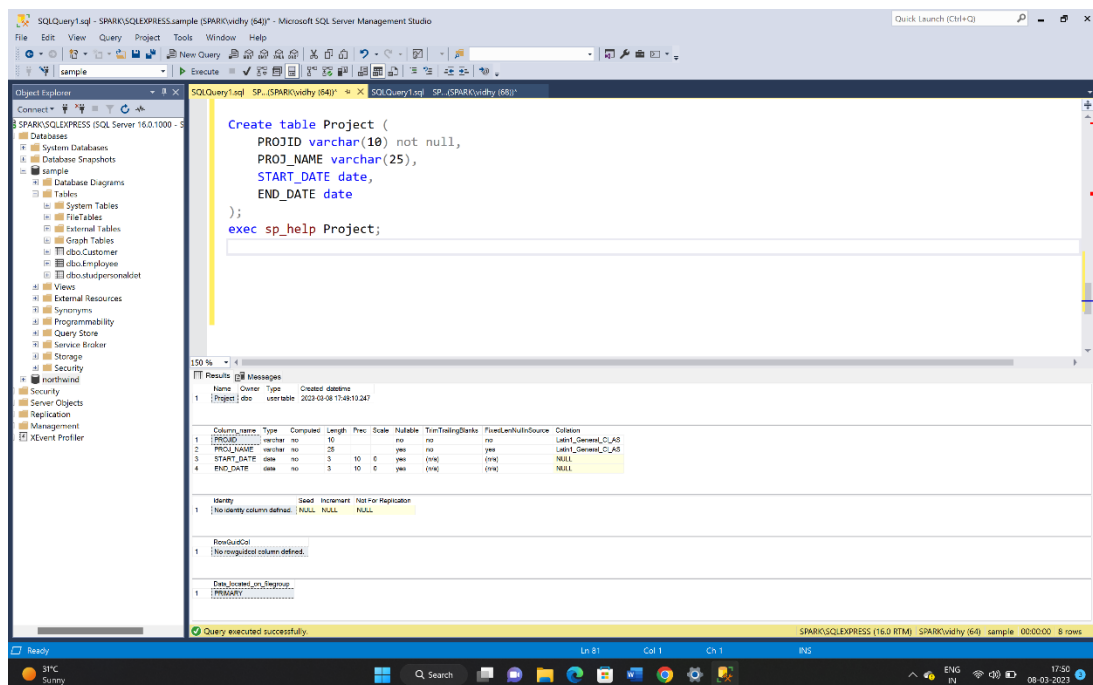
```
select * from Employee;
Insert into Employee values(1000,'Allen', 'Clerk',1001,'12-jan-01',
3000, 2,10);
Insert into Employee values(1001,'George', 'analyst', null, '08-Sep-92',
5000,0, 10);
Insert into Employee values(1002, 'Becker', 'Manager', 1000, '4-Nov-92',
2800,4, 20);
Insert into Employee values(1003, 'Bill', 'Clerk', 1002, '4-Nov-
92',3000, 0, 20);
select * from Employee;
```



#### 14. Create a Project Table with below structure

Name	Null?	Type
PROJID	NOT NULL	VARCHAR2(10)
PROJ_NAME		VARCHAR2(25)
START_DATE		DATE
END_DATE		DATE

```
Create table Project (  
  PROJID varchar(10) not null,  
  PROJ_NAME varchar(25),  
  START_DATE date,  
  END_DATE date  
);  
exec sp_help Project;
```



#### 15. Insert Records into Project Table as deemed necessary and relevant

```
Insert into project(PROJID, PROJ_NAME, START_DATE, END_DATE)  
Values(123, 'abc', '2022/01/23', '2022/02/23');
```

```
Insert into project(PROJID, PROJ_NAME, START_DATE, END_DATE)  
Values(124, 'pqr', '2022/03/23', '2022/04/23');
```

```
Insert into project(PROJID, PROJ_NAME, START_DATE, END_DATE)  
Values(124, 'xyz', '2022/06/23', '2022/07/23');  
select * from Project;
```

SQLQuery1.sql - SPARK\SQLEXPRESS.sample (SPARK\vidhy (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Connect - SPARK\SQLEXPRESS (SQL Server 16.0.1000 - S

Object Explorer

- Databases
  - System Databases
  - Database Snapshots
  - sample
    - Database Diagrams
    - Tables
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      - FileTables
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      - Graph Tables
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      - dbo.studpersonaldet
    - Views
    - External Resources
    - Synonyms
    - Programmability
    - Query Store
    - Service Broker
    - Storage
    - Security
  - northwind
  - Security
  - Server Objects
  - Replication
  - Management
  - XEvent Profiler

SQLQuery1.sql - SP\_ (SPARK\vidhy (64))

```
Insert into project(PROJID, PROJ_NAME, START_DATE, END_DATE)
Values(123, 'abc', '2022/01/23', '2022/02/23');

Insert into project(PROJID, PROJ_NAME, START_DATE, END_DATE)
Values(124, 'pqr', '2022/03/23', '2022/04/23');

Insert into project(PROJID, PROJ_NAME, START_DATE, END_DATE)
Values(124, 'xyz', '2022/06/23', '2022/07/23');
select * from Project;
```

150 %

Results Messages

	PROJID	PROJ_NAME	START_DATE	END_DATE
1	123	abc	2022-01-23	2022-02-23
2	124	pqr	2022-03-23	2022-04-23
3	124	xyz	2022-06-23	2022-07-23

Query executed successfully.

SPARK\SQLEXPRESS (16.0 RTM) SPARK\vidhy (64) sample 00:00:00 3 rows

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Search

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