SQLServer Lab

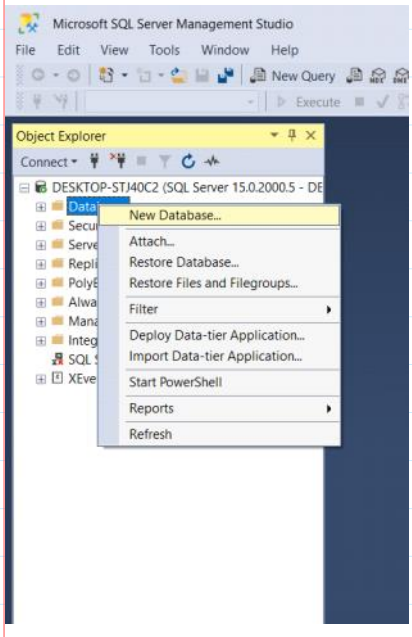
Part 1:

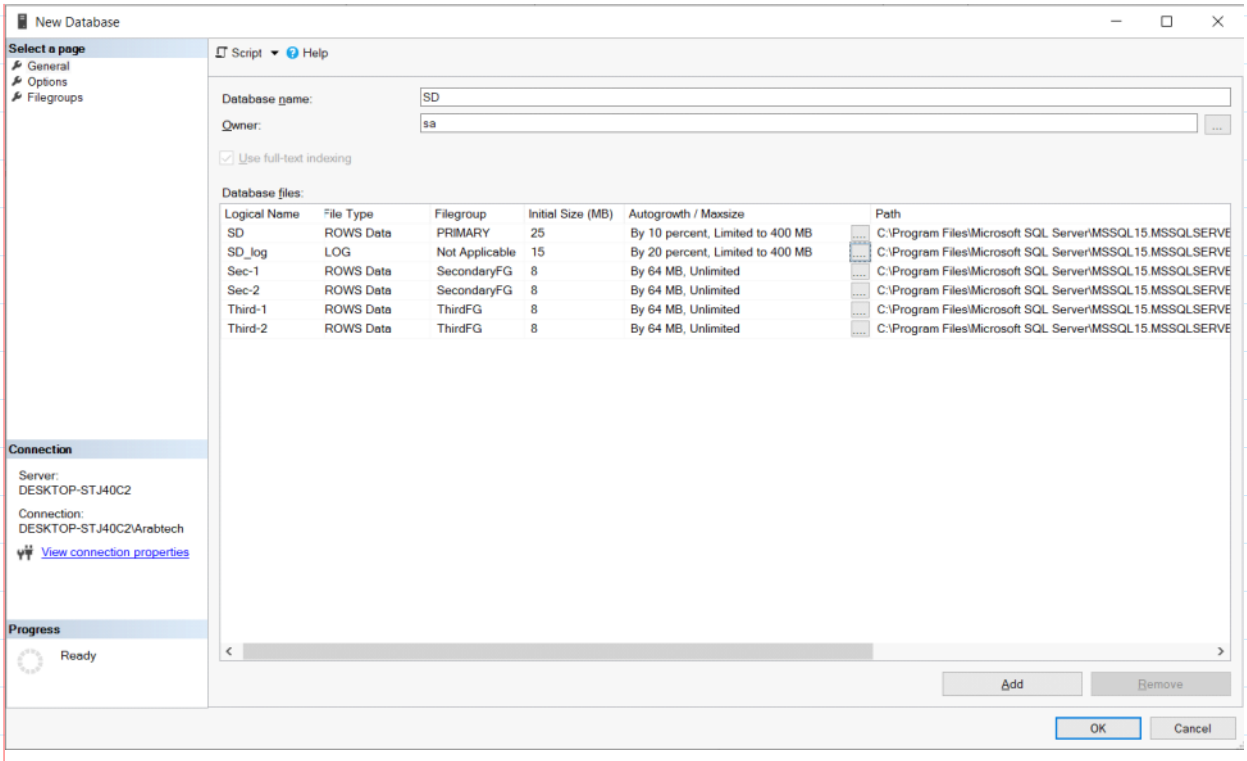
a. Create the following database using wizard Consists of 2 File Groups { SeconderyFG (has two data files) and ThirdFG (has two data files) }

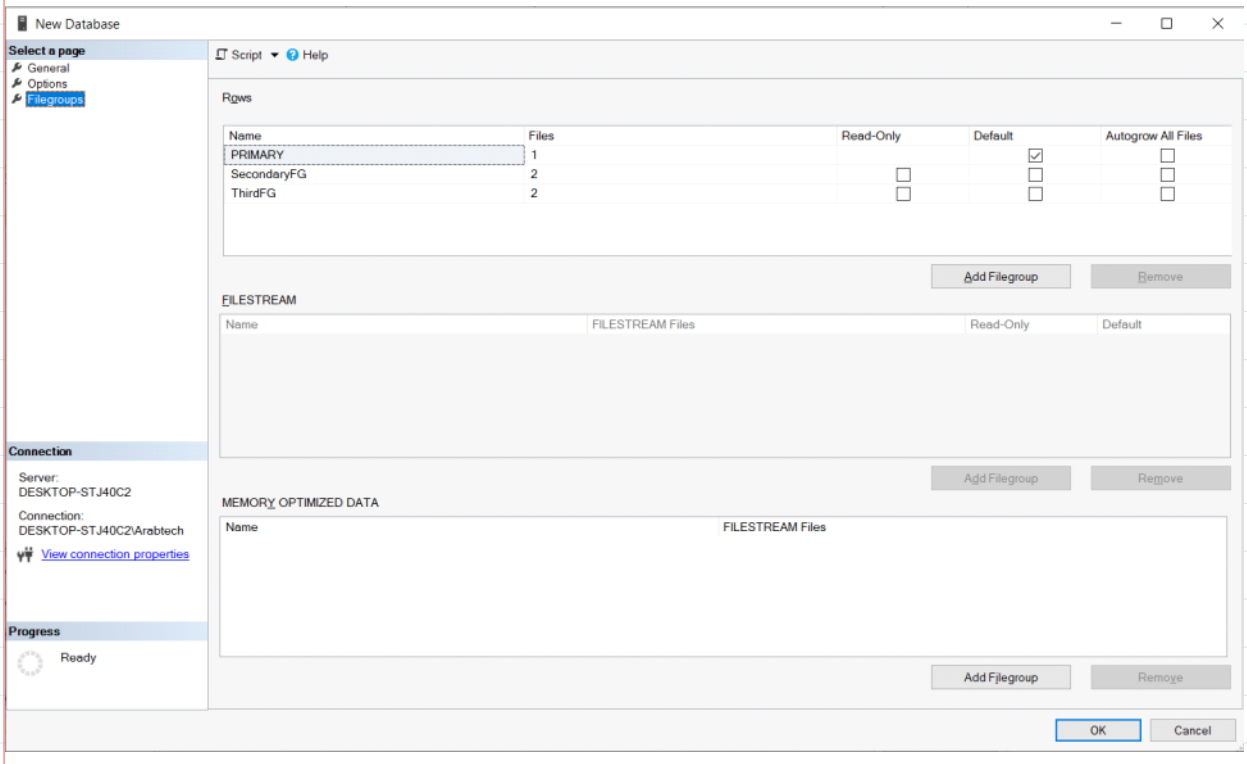
Database Name	SD
Location	(Default path)
Initial size for mdf	25 MB
File Group for mdf	Primary
File Growth for mdf	10%
Max. File Size for mdf	400MB
Log File Name	SD-Log
Location for Log	(Default Path)
Initial Size for Log	15 MB
File Growth	20%
Log File Max. Size	400 MB

1. Create the following tables with all the required information and load the required data as specified in each table using insert statements[at least two rows]

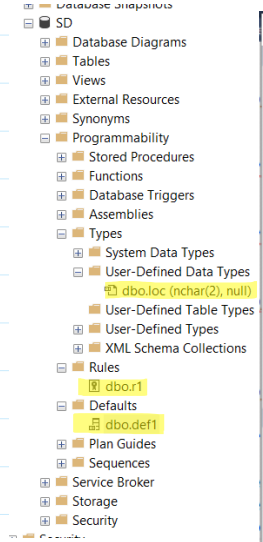
Tablename	Details			Comments
Department	DeptNo (PK)	DeptName	Location	1-Create it by code 2-Create a new user data type named loc with the following Criteria: • nchar(2) • default:NY • create a rule for this Datatype :values in (NY,DS,KW)) and associate it to the
	d1	Research	NY	
	d2	Accounting	DS	
	d3	Markiting	KW	

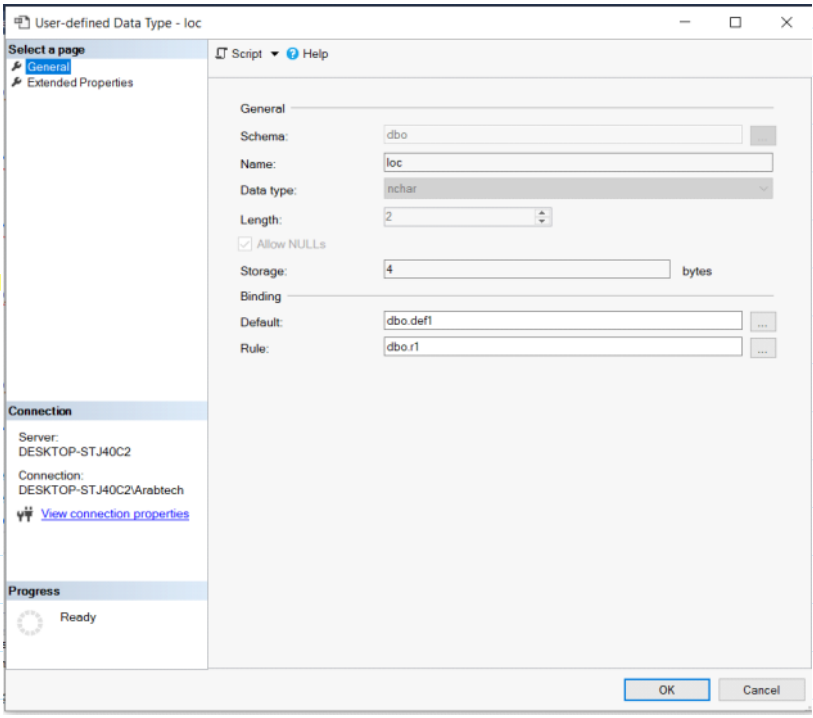


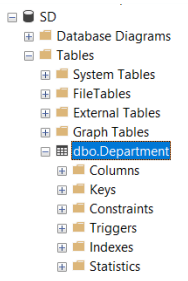

New Database
Select a page
General
Options
Filegroups
Script
Help
Database name:
SD
Owner:
sa
Use full-text indexing
Database files:
Logical Name | File Type | Filegroup | Initial Size (MB) | Autogrowth / Maxsize | Path
SD | ROWS Data | PRIMARY | 25 | By 10 percent, Limited to 400 MB | C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVE
SD_log | LOG | Not Applicable | 15 | By 20 percent, Limited to 400 MB | C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVE
Sec-1 | ROWS Data | SecondaryFG | 8 | By 64 MB, Unlimited | C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVE
Sec-2 | ROWS Data | SecondaryFG | 8 | By 64 MB, Unlimited | C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVE
Third-1 | ROWS Data | ThirdFG | 8 | By 64 MB, Unlimited | C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVE
Third-2 | ROWS Data | ThirdFG | 8 | By 64 MB, Unlimited | C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVE
Connection
Server:
DESKTOP-STJ40C2
Connection:
DESKTOP-STJ40C2\Arabtech
View connection properties
Progress
Ready
Add
Remove
OK
Cancel

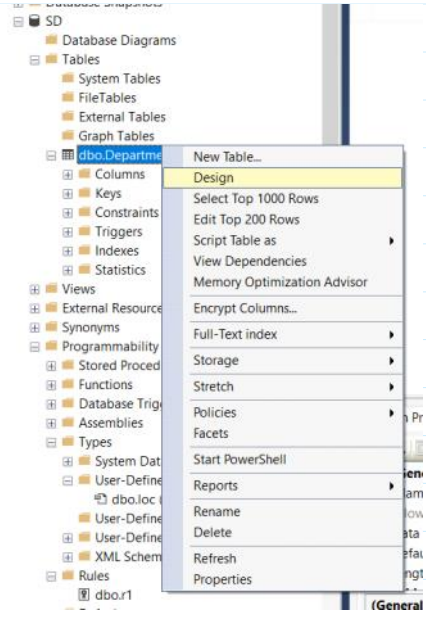

New Database
Select a page
General
Options
Filegroups
Script
Help
Rows
Name | Files | Read-Only | Default | Autogrow All Files
PRIMARY | 1
SecondaryFG | 2
ThirdFG | 2
Add Filegroup
Remove
FILESTREAM
Name | FILESTREAM Files | Read-Only | Default
Add Filegroup
Remove
MEMORY OPTIMIZED DATA
Name | FILESTREAM Files
Add Filegroup
Remove
Connection
Server:
DESKTOP-STJ40C2
Connection:
DESKTOP-STJ40C2\Arabtech
View connection properties
Progress
Ready
OK
Cancel

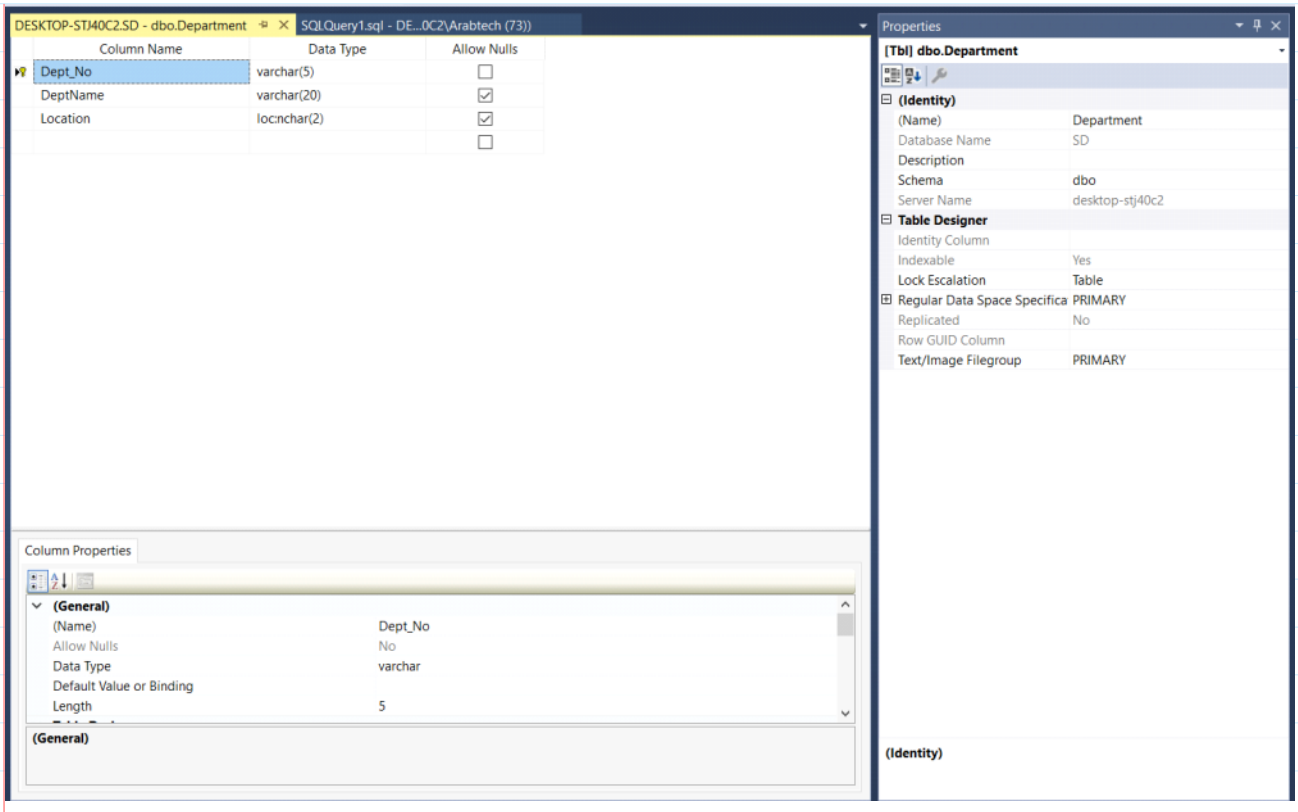
```sql
-- Creating a User-Defined Datatype
sp_addtype loc,'nchar(2)' ;

-- Creating a Rule
create rule r1 as @x in ('NY','DS','KW');

-- Creating a Default
create default def1 as 'NY';

-- Binding Rule to Datatype
sp_bindrule r1,loc;

-- Binding Default to Datatype

sp_bindefault def1,loc

create table Department
(
Dept_No varchar(5) Primary Key,
DeptName varchar(20),
Location loc
)
```

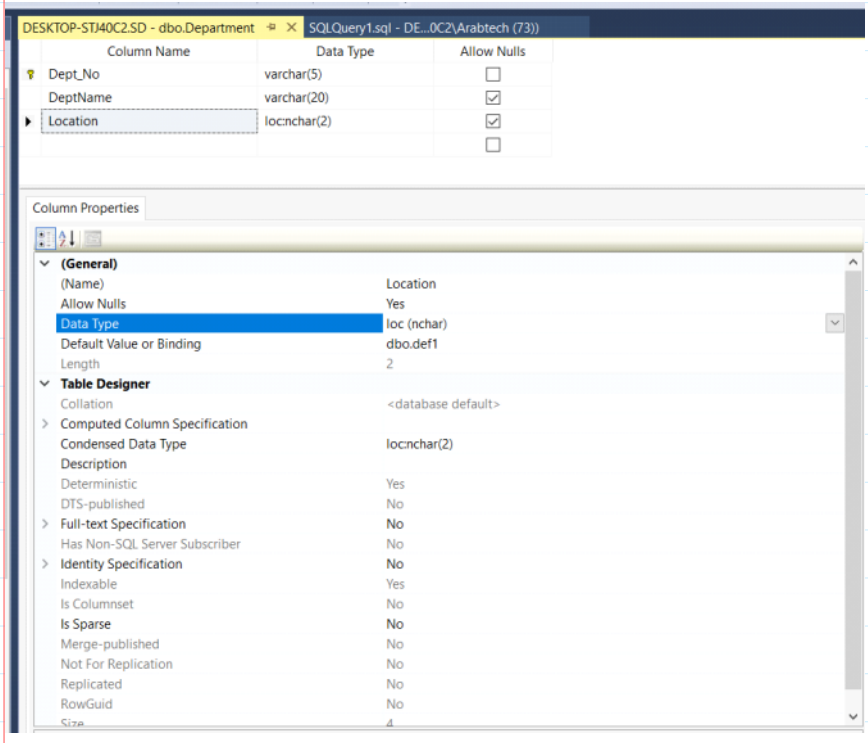


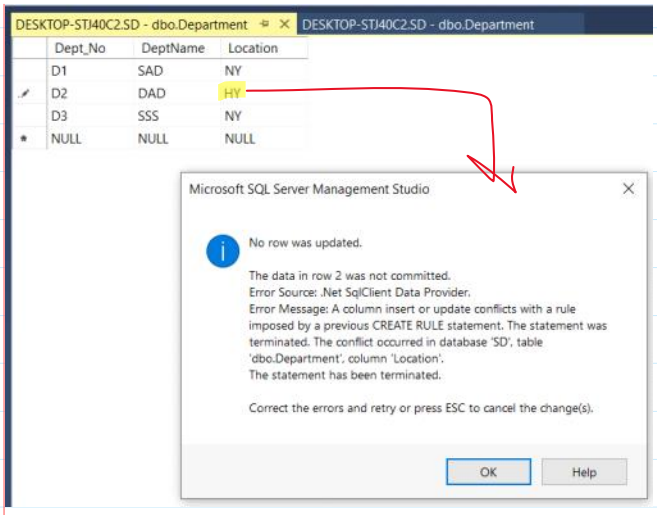




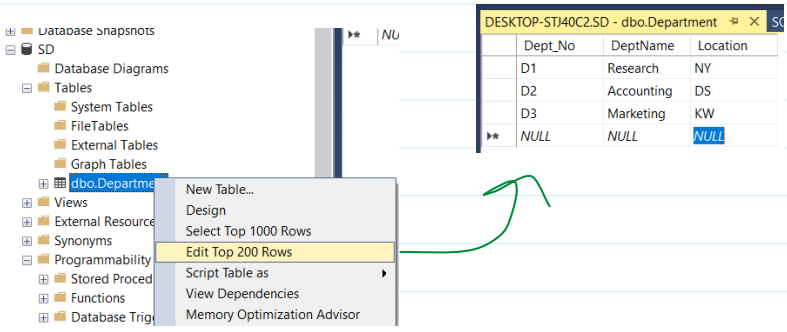



DESKTOP-STJ40C2.SD - dbo.Department
SQLQuery1.sql - DE...0C2\Arabtech (73))
Column Name
Data Type
Allow Nulls
Dept_No
varchar(5)
DeptName
varchar(20)
Location
loc:nchar(2)
Column Properties
(General)
(Name)
Dept_No
Allow Nulls
No
Data Type
varchar
Default Value or Binding
Length
5
(General)
Properties
[Tbl] dbo.Department
(Identity)
(Name)
Department
Database Name
SD
Description
Schema
dbo
Server Name
desktop-stj40c2
Table Designer
Identity Column
Indexable
Yes
Lock Escalation
Table
Regular Data Space Specifica
PRIMARY
Replicated
No
Row GUID Column
Text/Image Filegroup
PRIMARY
(Identity)


DESKTOP-STJ40C2.SD - dbo.Department
SQLQuery1.sql - DE...0C2\Arabtech (73))
Column Name
Data Type
Allow Nulls
Dept_No
varchar(5)
DeptName
varchar(20)
Location
loc:nchar(2)
Column Properties
(General)
(Name)
Location
Allow Nulls
Yes
Data Type
loc (nchar)
Default Value or Binding
dbo.def1
Length
2
Table Designer
Collation
<database default>
Computed Column Specification
Condensed Data Type
loc:nchar(2)
Description
Deterministic
Yes
DTS-published
No
Full-text Specification
No
Has Non-SQL Server Subscriber
No
Identity Specification
No
Indexable
Yes
Is Columnset
No
Is Sparse
No
Merge-published
No
Not For Replication
No
Replicated
No
RowGuid
No




```
-- Insert Department Table Rows
Insert into Department values ('D1','Research','NY');
Insert into Department values ('D2','Accounting','DS');
Insert into Department values ('D3','Marketing','KW');
```



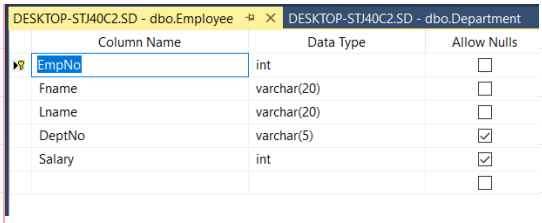
2

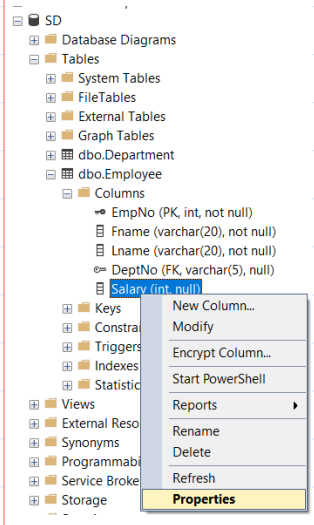
Saturday, February 18, 2023 4:44 PM

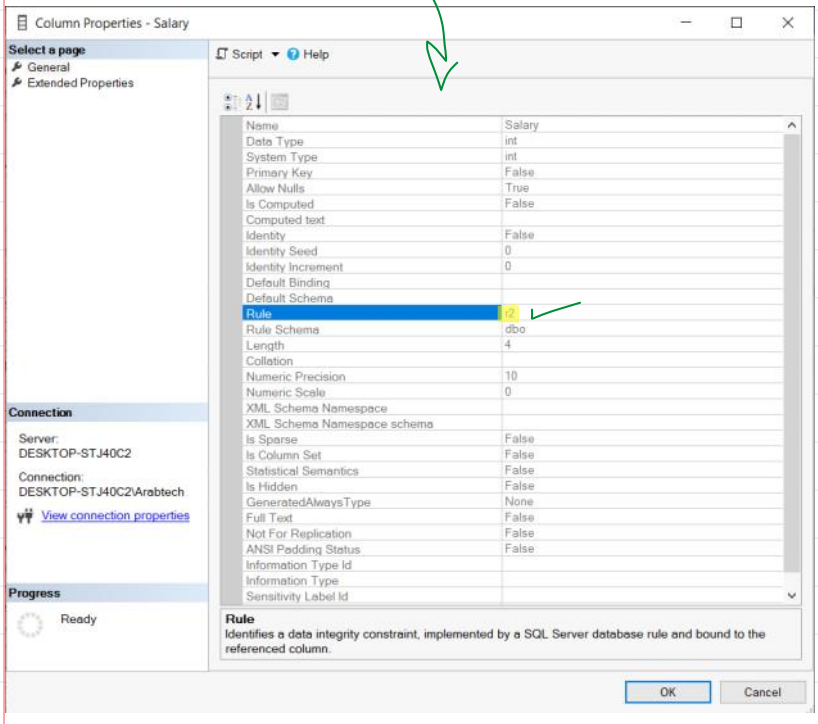
		location column
Employee	EmpNo (PK) | Emp Fname | Emp Lname | Dept No | Salary 25348 | Mathew | Smith | d3 | 2500 10102 | Ann | Jones | d3 | 3000 18316 | John | Barrimore | d1 | 2400 29346 | James | James | d2 | 2800 9031 | Lisa | Bertoni | d2 | 4000 2581 | Elisa | Hansel | d2 | 3600 28559 | Sybl | Moser | d1 | 2900	1-Create it by code 2-PK constraint on EmpNo 3-FK constraint on DeptNo 4-Unique constraint on Salary 5-EmpFname, EmpLname don't accept null values 6-Create a rule on Salary column to ensure that it is less than 6000
Project	ProjectNo (PK) | ProjectName | Budget p1 | Apollo | 120000 p2 | Gemini | 95000 p3 | Mercury | 185600	1-Create it using wizard 2-ProjectName can't contain null values 3-Budget allow null
Works_on	EmpNo (PK) | ProjectNo (PK) | Job | Enter_Date 10102 | p1 | Analyst | 2006.10.1 10102 | p3 | Manager | 2012.1.1 25348 | p2 | Clerk | 2007.2.15 18316 | p2 | NULL | 2007.6.1 29346 | p2 | NULL | 2006.12.15 2581 | p3 | Analyst | 2007.10.15 9031 | p1 | Manager | 2007.4.15 28559 | p1 | NULL | 2007.8.1	1-Create it using wizard 2- EmpNo INTEGER NOT NULL 3-ProjectNo doesn't accept null values 4-Job can accept null 5-Enter_Date can't accept null and has the current system date as a default value[visually] 6-The primary key will be

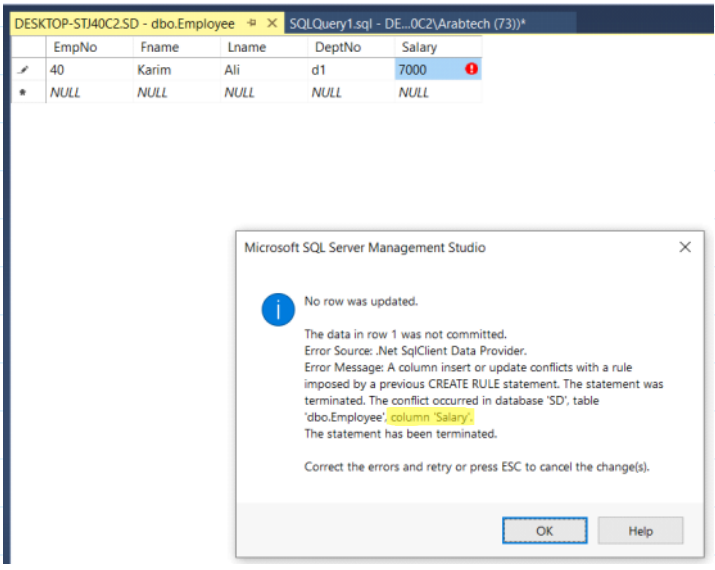
Table Employee

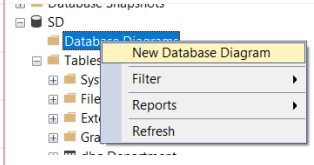
```
-- creating rule 2

create rule r2 as @x < 6000;

-- Creating Employee Table

create table Employee
(
EmpNo int,
Fname varchar(20) not null,
Lname varchar(20) not null,
DeptNo varchar(5),
Salary int,
constraint c1 Primary Key (EmpNo),
constraint c2 Foreign Key (DeptNo) references Department(Dept_No)
    on delete set null
    on update cascade,
constraint c3 UNIQUE (Salary),
);

sp_bindrule r2,'Employee.Salary';
```

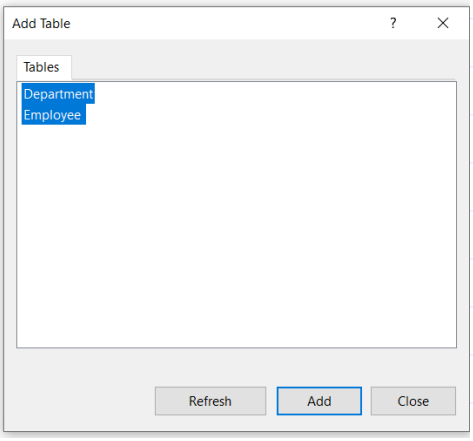

DESKTOP-STJ40C2.SD - dbo.Employee
DESKTOP-STJ40C2.SD - dbo.Department
Column Name
Data Type
Allow Nulls
EmpNo
int
Fname
varchar(20)
Lname
varchar(20)
DeptNo
varchar(5)
Salary
int

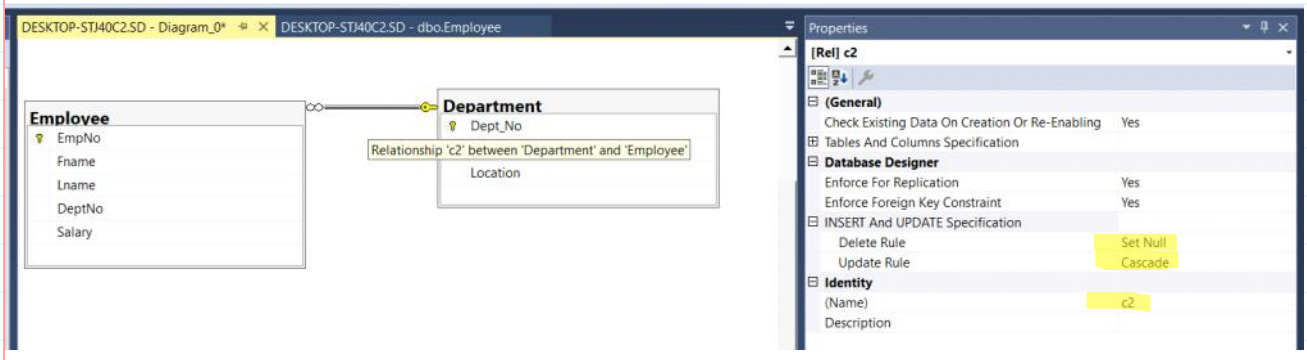

SD
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.Department
dbo.Employee
Columns
EmpNo (PK, int, not null)
Fname (varchar(20), not null)
Lname (varchar(20), not null)
DeptNo (FK, varchar(5), null)
Salary (int, null)
Keys
Views
Synonyms
Storage
New Column...
Modify
Encrypt Column...
Start PowerShell
Reports
Rename
Delete
Refresh
Properties


Column Properties - Salary
Select a page
General
Extended Properties
Script
Help
Name
Salary
Data Type
int
System Type
int
Primary Key
False
Allow Nulls
True
Is Computed
False
Computed text
Identity
False
Identity Seed
0
Identity Increment
0
Default Binding
Default Schema
Rule
r2
Rule Schema
dbo
Length
4
Collation
Numeric Precision
10
Numeric Scale
0
XML Schema Namespace
XML Schema Namespace schema
Is Sparse
False
Is Column Set
False
Statistical Semantics
False
Is Hidden
False
GeneratedAlwaysType
None
Full Text
False
Not For Replication
False
ANSI Padding Status
False
Information Type Id
Information Type
Sensitivity Label Id
Connection
Server:
DESKTOP-STJ40C2
Connection:
DESKTOP-STJ40C2\Arabtech
View connection properties
Progress
Ready
Rule
Identifies a data integrity constraint, implemented by a SQL Server database rule and bound to the referenced column.
OK
Cancel

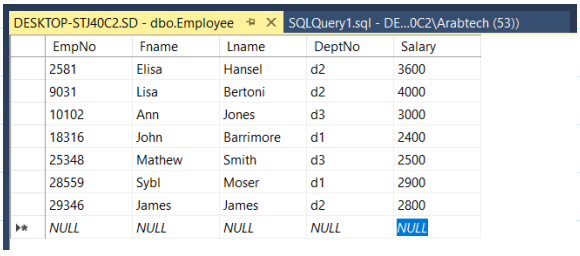

DESKTOP-STJ40C2.SD - dbo.Employee
SQLQuery1.sql - DE...0C2\Arabtech (73))*
EmpNo
Fname
Lname
DeptNo
Salary
40
Karim
Ali
d1
7000
NULL
NULL
NULL
NULL
NULL
Microsoft SQL Server Management Studio
No row was updated.
The data in row 1 was not committed.
Error Source: .Net SqlClient Data Provider.
Error Message: A column insert or update conflicts with a rule imposed by a previous CREATE RULE statement. The statement was terminated. The conflict occurred in database 'SD', table 'dbo.Employee', column 'Salary'.
The statement has been terminated.
Correct the errors and retry or press ESC to cancel the change(s).
OK
Help


SD
Database Diagrams
Tables
New Database Diagram
Filter
Reports
Refresh



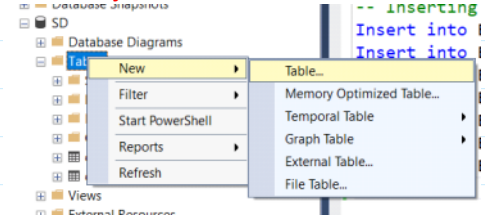


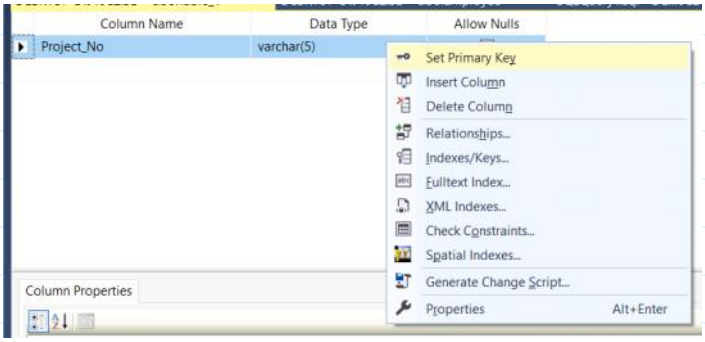

```
-- Inserting Data to Table Employee
Insert into Employee values (25348,'Mathew','Smith','d3',2500);
Insert into Employee values (10102,'Ann','Jones','d3',3000);
Insert into Employee values (18316,'John','Barrimore','d1',2400);
Insert into Employee values (29346,'James','James','d2',2800);
Insert into Employee values (9031,'Lisa','Bertoni','d2',4000);
Insert into Employee values (2581,'Elisa','Hansel','d2',3600);
Insert into Employee values (28559,'Sybl','Moser','d1',2900);
```

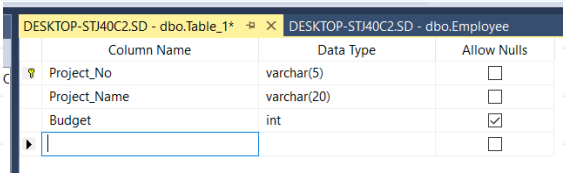


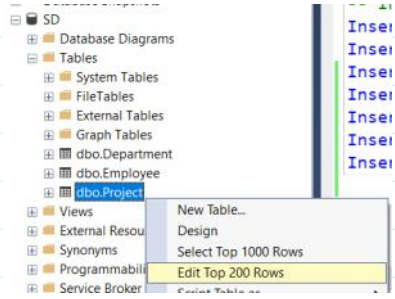
EmpNo	Fname	Lname	DeptNo	Salary
2581	Elisa	Hansel	d2	3600
9031	Lisa	Bertoni	d2	4000
10102	Ann	Jones	d3	3000
18316	John	Barrimore	d1	2400
25348	Mathew	Smith	d3	2500
28559	Sybl	Moser	d1	2900
29346	James	James	d2	2800
NULL	NULL	NULL	NULL	NULL

Table Project









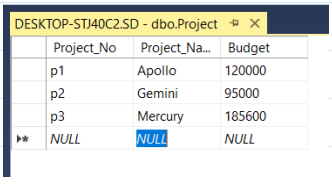
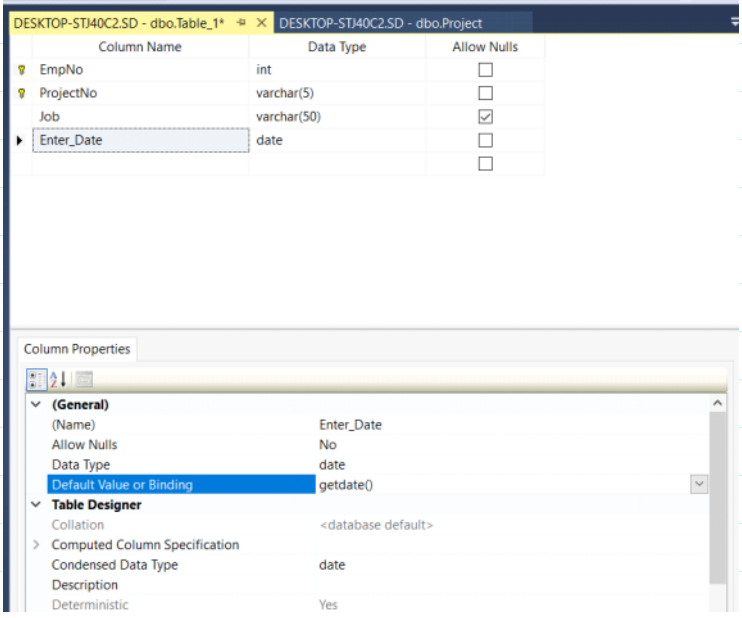
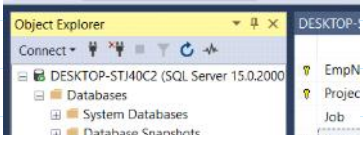
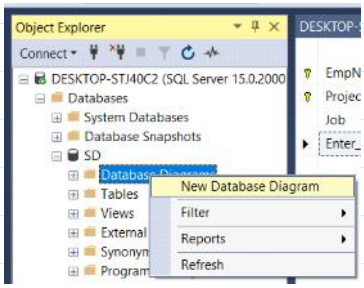
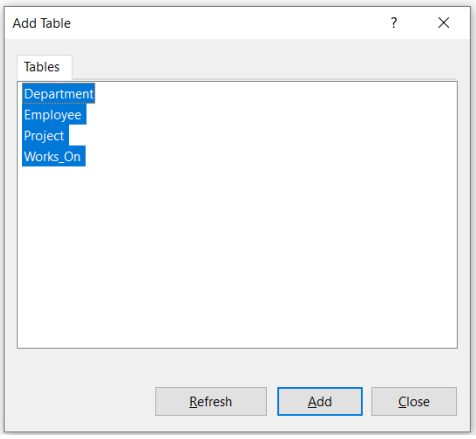


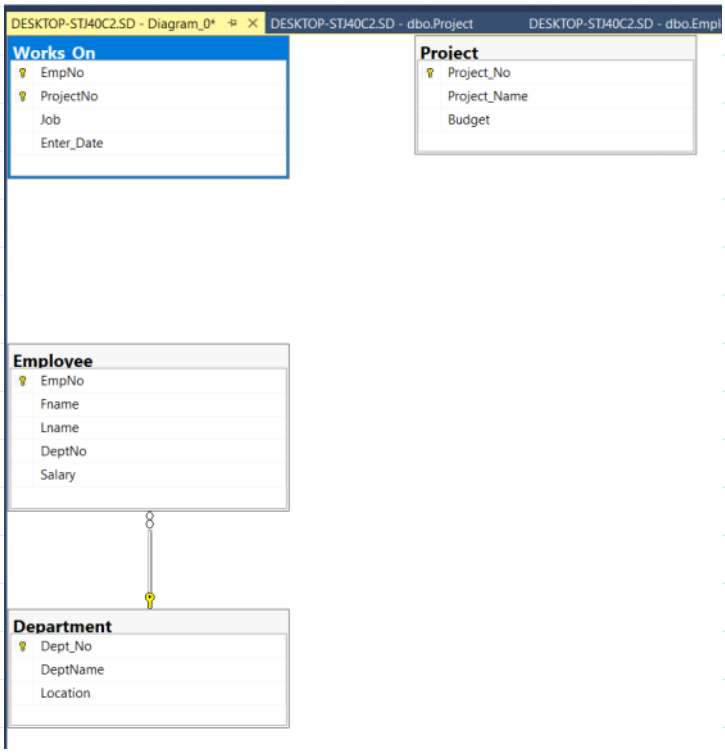
Table Works_On

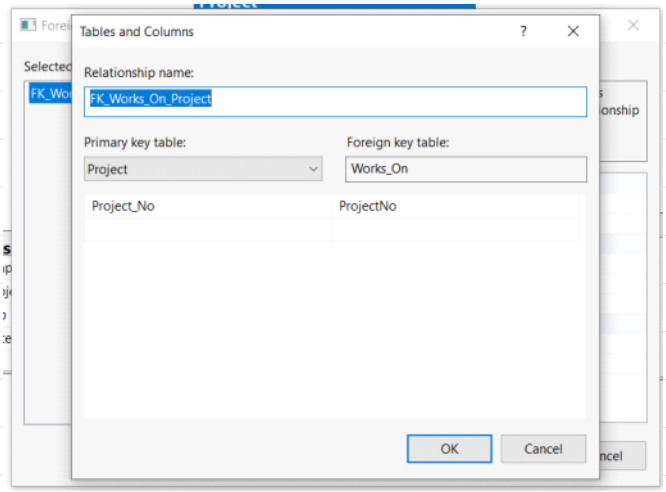


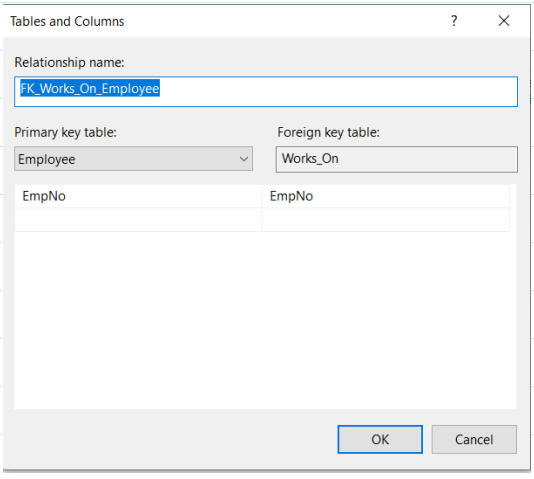


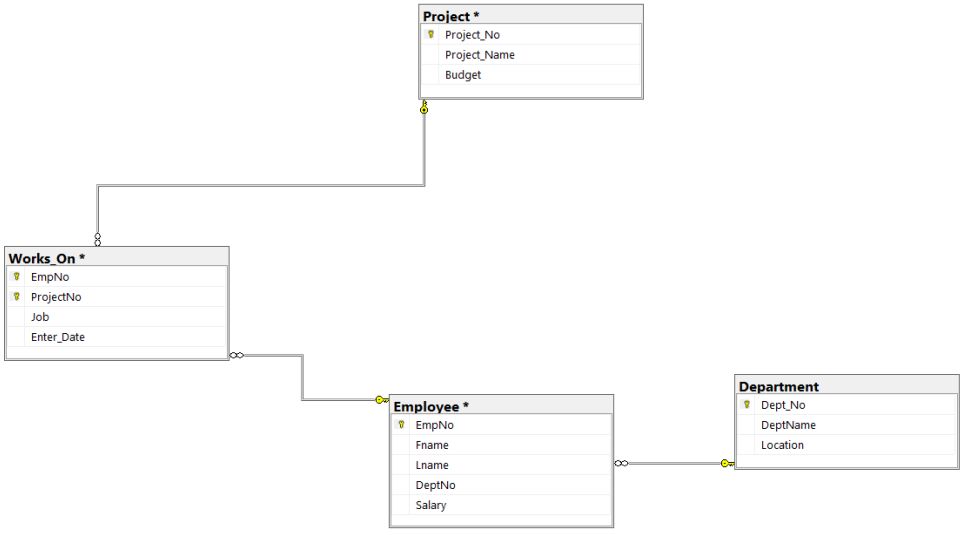

Object Explorer
Connect
DESKTOP-STJ40C2 (SQL Server 15.0.2000
Databases
System Databases
Database Snapshots
SD
Database Diagrams
Tables
Views
External
Synonyn
Program
New Database Diagram
Filter
Reports
Refresh
DESKTOP-
EmpN
Projec
Job
Enter_

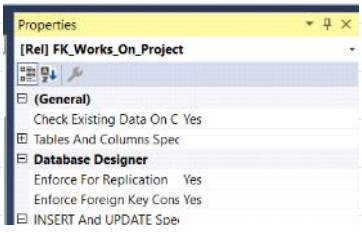

Add Table
Tables
Department
Employee
Project
Works_On
Refresh
Add
Close


DESKTOP-STJ40C2.SD - Diagram_0*
DESKTOP-STJ40C2.SD - dbo.Project
DESKTOP-STJ40C2.SD - dbo.Empl
Works_On
EmpNo
ProjectNo
Job
Enter_Date
Proiect
Project_No
Project_Name
Budget
Employee
EmpNo
Fname
Lname
DeptNo
Salary
Department
Dept_No
DeptName
Location

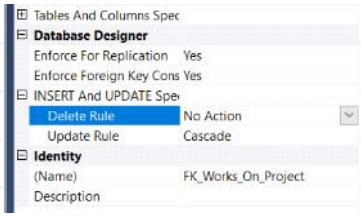

Tables and Columns
Relationship name:
FK_Works_On_Project
Primary key table:
Foreign key table:
Project
Works_On
Project_No
ProjectNo
OK
Cancel

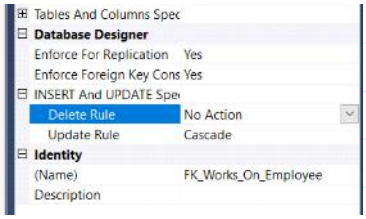

Tables and Columns
Relationship name:
FK_Works_On_Employee
Primary key table:
Foreign key table:
Employee
Works_On
EmpNo
EmpNo
OK
Cancel


Project *
Project_No
Project_Name
Budget
Works_On *
EmpNo
ProjectNo
Job
Enter_Date
Employee *
EmpNo
Fname
Lname
DeptNo
Salary
Department
Dept_No
DeptName
Location


Properties
[Rel] FK_Works_On_Project
(General)
Check Existing Data On C Yes
Tables And Columns Spec
Database Designer
Enforce For Replication Yes
Enforce Foreign Key Cons Yes
INSERT And UPDATE Spe

Properties
[Rel] FK_Works_On_Employee
(General)
Check Existing Data On C Yes
Tables And Columns Spec
Database Designer
Enforce For Replication Yes
Enforce Foreign Key Cons Yes
INSERT And UPDATE Spe





Works_On

DESKTOP-STJ40C2.SD - dbo.Works_On

EmpNo	ProjectNo	Job	Enter_Date
10102	p1	Analyst	2006-10-01
10102	p3	Manager	2012-01-01
25348	p2	Clerk	2007-06-01
18316	p2	*NULL*	2006-12-15
29346	p2	*NULL*	2007-10-15
9031	p1	Manager	2007-04-15
28559	p1	*NULL*	2007-08-01
NULL	*NULL*	*NULL*	*NULL*

3

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	28559	p2	Clerk	2012.2.1	EmpNo,ProjectNo) 7-there is a relation between works_on and employee, Project tables
	9031	p3	Clerk	2006.11.15	
	29346	p1	Clerk	2007.1.4	
Testing Referential Integrity	1-Add new employee with EmpNo =11111 In the works_on table [what will happen] 2-Change the employee number 10102 to 11111 in the works on table [what will happen] 3-Modify the employee number 10102 in the employee table to 22222. [what will happen] 4-Delete the employee with id 10102				
Table modification	1-Add TelephoneNumber column to the employee table[programmatically] 2-drop this column[programmatically] 3-Bulid A diagram to show Relations between tables				

2. Create the following schema and transfer the following tables to it
    a. Company Schema
        i. Department table (Programmatically)
        ii. Project table (using wizard)
    b. Human Resource Schema
        i. Employee table (Programmatically)

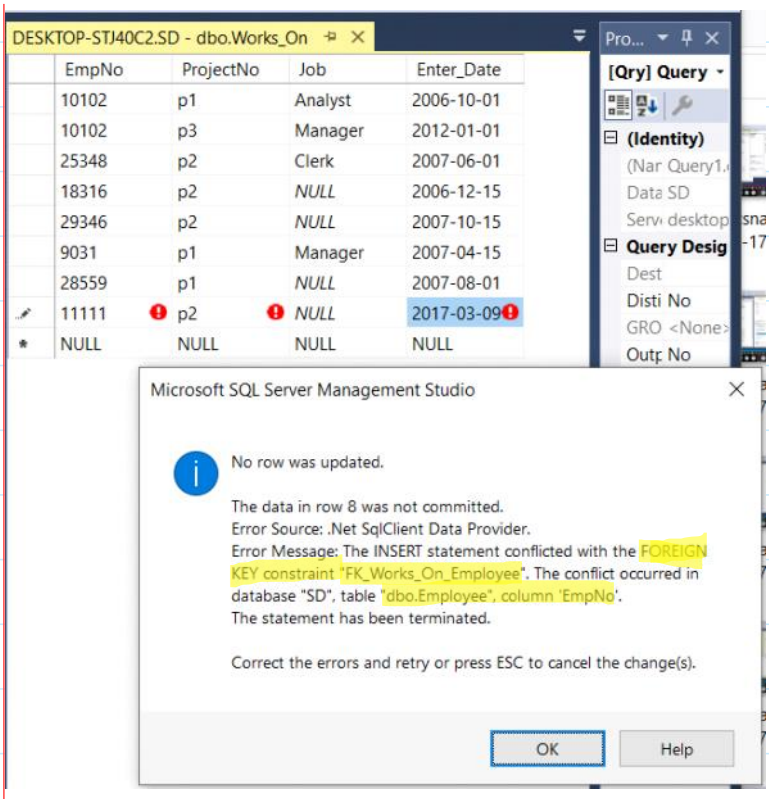
3. Write query to display the constraints for the Employee table.
4. Create Synonym for table Employee as Emp and then run the following queries and describe the results
    a. Select * from Employee
    b. Select * from [Human Resource].Employee
    c. Select * from Emp
    d. Select * from [Human Resource].Emp

5. Increase the budget of the project where the manager number is 10102 by 10%.
6. Change the name of the department for which the employee named James works.The new department name is Sales.

Testing Referential Integrity

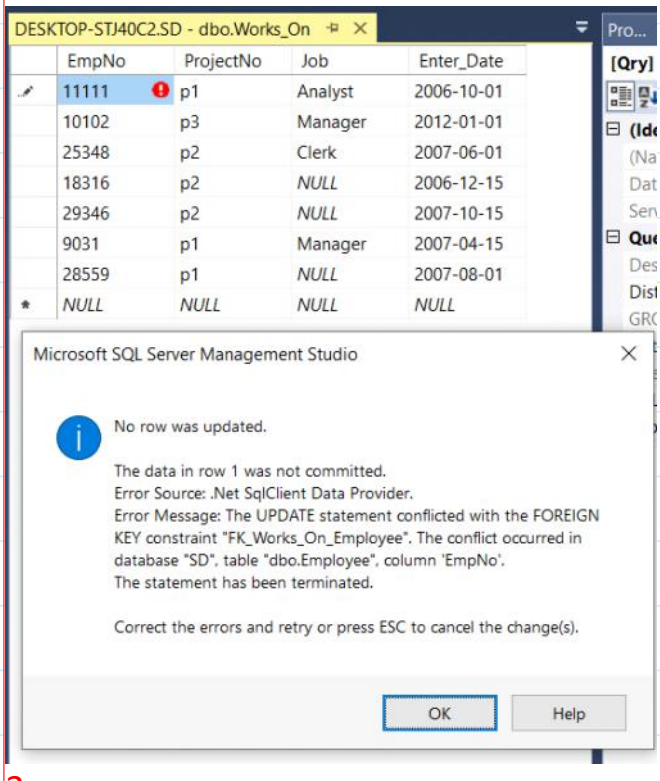
1.

Works_On Employee

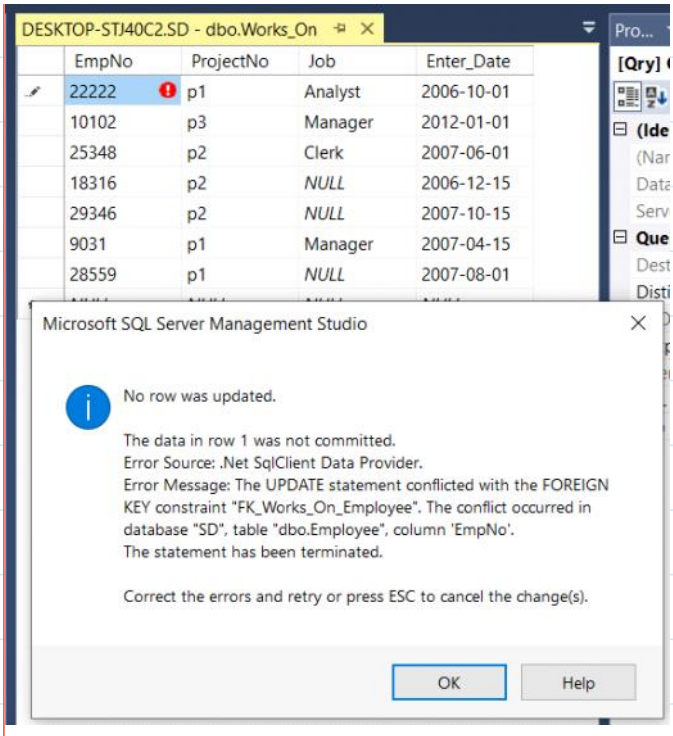


EmpNo	Fname	Lname	DeptNo	Salary
2581	Elisa	Hansel	d2	3600
9031	Lisa	Bertoni	d2	4000
10102	Ann	Jones	d3	3000
18316	John	Barrimore	d1	2400
25348	Mathew	Smith	d3	2500
28559	Sybl	Moser	d1	2900
29346	James	James	d2	2800
NULL	*NULL*	*NULL*	*NULL*	*NULL*

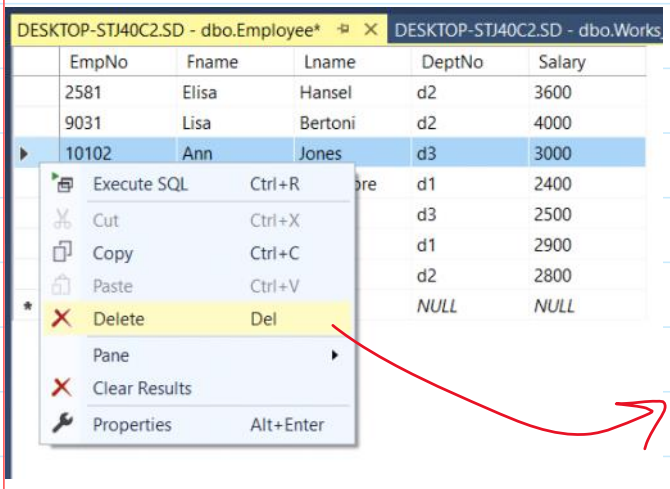
2.



3.



4.



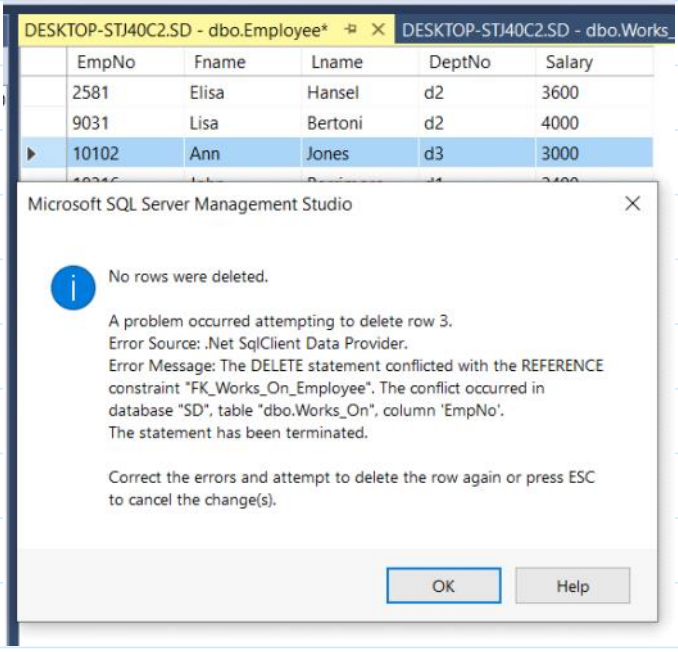
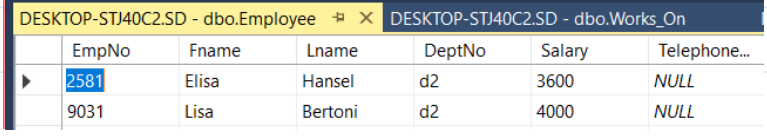


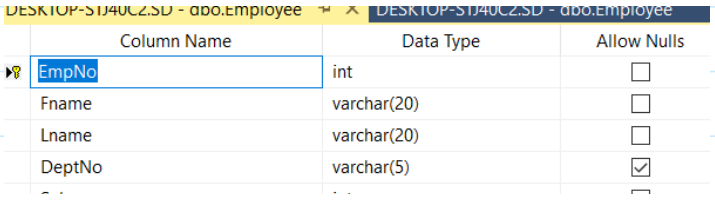
Table Modification

1.

```
-- Table Modification
--1.Add Column TelephoneNumber to Employee Table
Alter Table Employee
Add TelephoneNumber int;
```

Employee Table





EmpNo	Fname	Lname	DeptNo	Salary	Telephone...
2581	Elisa	Hansel	d2	3600	*NULL*
9031	Lisa	Bertoni	d2	4000	*NULL*
10102	Ann	Jones	d3	3000	*NULL*
18316	John	Barrimore	d1	2400	*NULL*
25348	Mathew	Smith	d3	2500	*NULL*
28559	Sybl	Moser	d1	2900	*NULL*
29346	James	James	d2	2800	*NULL*
NULL	*NULL*	*NULL*	*NULL*	*NULL*	*NULL*

Fname	varchar(20)	☐
Lname	varchar(20)	☐
DeptNo	varchar(5)	☑
Salary	int	☑
TelephoneNumber	int	☑
		☐

2.

```
--2.Drop this Column
Alter Table Employee
Drop Column TelephoneNumber;
```

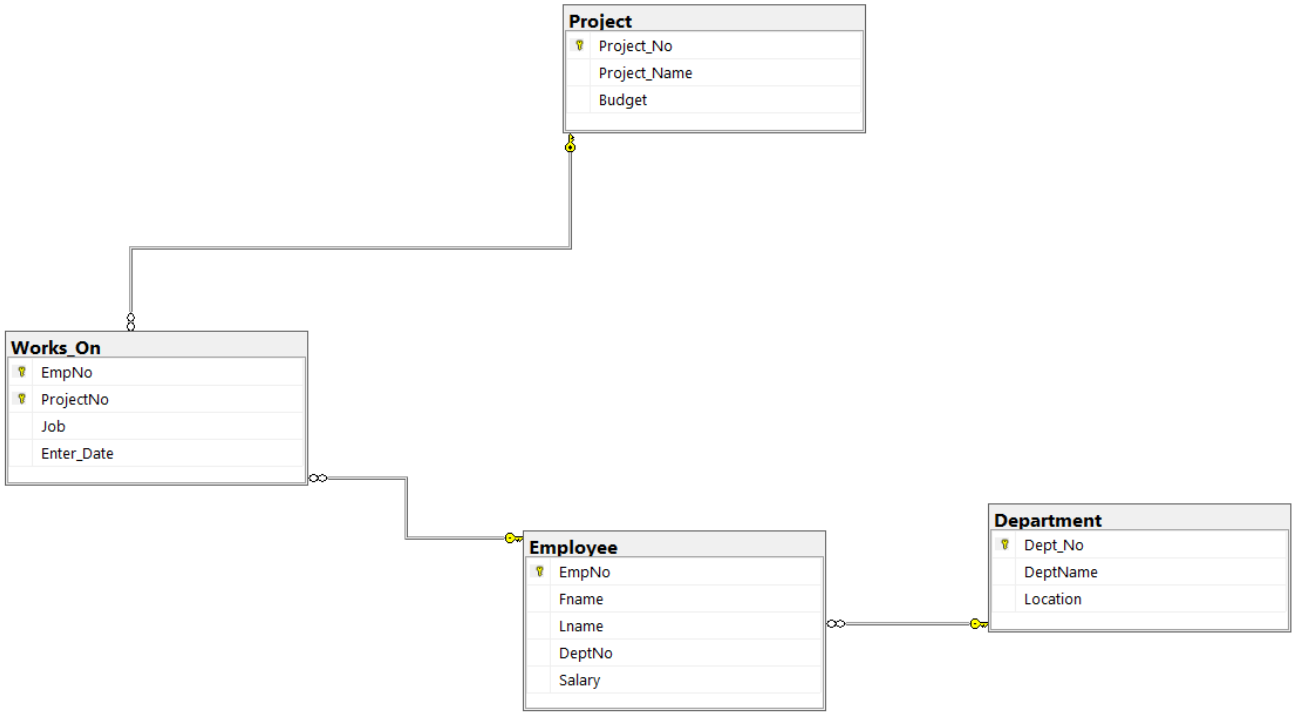
DESKTOP-STJ40C2.SD - dbo.Employee | SQLQuery1.sql - DE...0C2\Arabtech

EmpNo	Fname	Lname	DeptNo	Salary
2581	Elisa	Hansel	d2	3600
9031	Lisa	Bertoni	d2	4000
10102	Ann	Jones	d3	3000
18316	John	Barrimore	d1	2400
25348	Mathew	Smith	d3	2500
28559	Sybl	Moser	d1	2900
29346	James	James	d2	2800
NULL	*NULL*	*NULL*	*NULL*	*NULL*

DESKTOP-STJ40C2.SD - dbo.Employee | DESKTOP-STJ40C2.SD - dbo.Employee

Column Name	Data Type	Allow Nulls
EmpNo	int	☐
Fname	varchar(20)	☐
Lname	varchar(20)	☐
DeptNo	varchar(5)	☑
Salary	int	☑
		☐

3. Diagram



3

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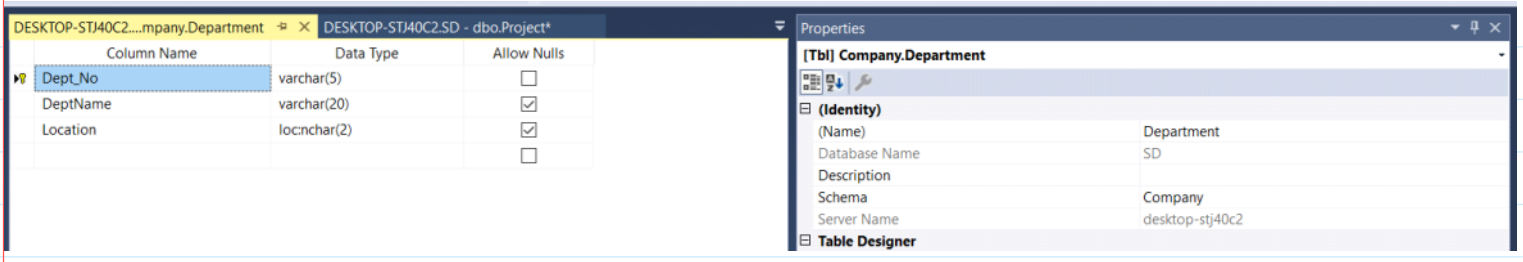
Point 2.

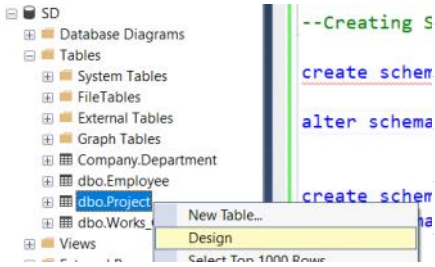
(a)

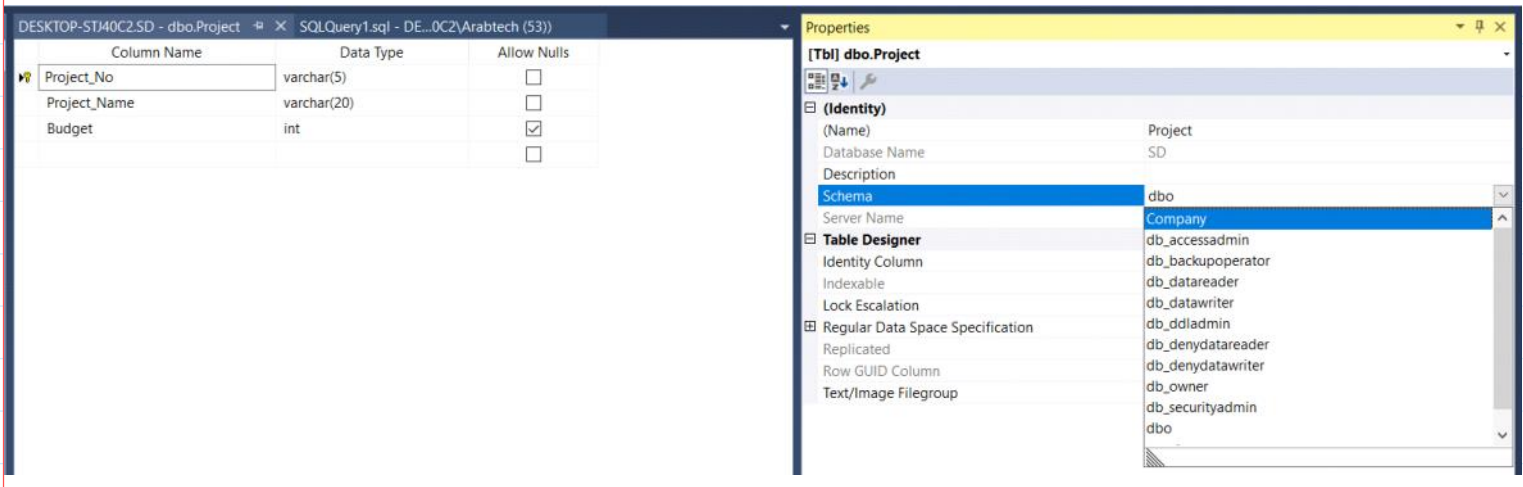
```
--Point 2
---------------
--Creating Schema

create schema Company

alter schema Company transfer Department
```

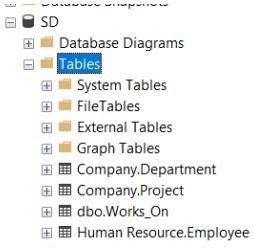


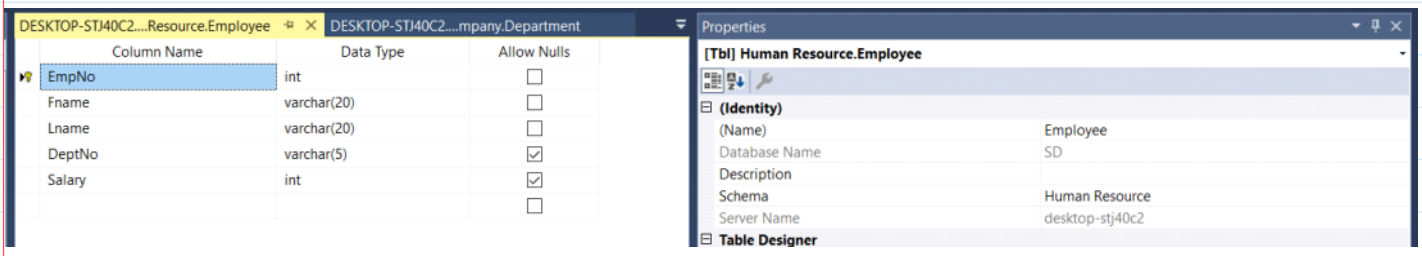




(b)

```
create schema "Human Resource"
alter schema "Human Resource" transfer Employee
```




DESKTOP-STJ40C2....Resource.Employee
DESKTOP-STJ40C2....mpany.Department
Column Name
Data Type
Allow Nulls
EmpNo
int
Fname
varchar(20)
Lname
varchar(20)
DeptNo
varchar(5)
Salary
int
Properties
[Tbl] Human Resource.Employee
(Identity)
(Name)
Employee
Database Name
SD
Description
Schema
Human Resource
Server Name
desktop-stj40c2
Table Designer

3

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Point 3.

https://bhaveshgpatel.wordpress.com/2009/11/04/sql-server-list-all-constraints-of-database-or-table/

```
-- Point 3
-- View Constraints of table Employee

SELECT * FROM INFORMATION_SCHEMA.TABLE_CONSTRAINTS
WHERE TABLE_NAME='Employee'
```

Results Messages

	CONSTRAINT_CATALOG	CONSTRAINT_SCHEMA	CONSTRAINT_NAME	TABLE_CATALOG	TABLE_SCHEMA	TABLE_NAME	CONSTRAINT_TYPE	IS_DEFERRABLE	INITIALLY_DEFERRED
1	SD	Human Resource	c1	SD	Human Resource	Employee	PRIMARY KEY	NO	NO
2	SD	Human Resource	c3	SD	Human Resource	Employee	UNIQUE	NO	NO
3	SD	Human Resource	c2	SD	Human Resource	Employee	FOREIGN KEY	NO	NO

Point4.

```
--Point 4
-- Create synonym Emp for Table Employee

create synonym Emp for Employee;
```

156 %

Messages

Commands completed successfully.

```
select * from Employee;
```

156 %

Messages

Msg 208, Level 16, State 1, Line 111
Invalid object name 'Employee'.

```
select * from [Human Resource].Employee;
```

Results Messages

	EmpNo	Fname	Lname	DeptNo	Salary
1	2581	Elisa	Hansel	d2	3600
2	9031	Lisa	Bertoni	d2	4000
3	10102	Ann	Jones	d3	3000
4	18316	John	Barrimore	d1	2400
5	25348	Mathew	Smith	d3	2500
6	28559	Sybl	Moser	d1	2900
7	29346	James	James	d2	2800

```
select * from Emp;
```

Msg 5313, Level 16, State 1, Line 113
Synonym 'Emp' refers to an invalid object.

```
select * from [Human Resource].Emp;
```

Msg 208, Level 16, State 1, Line 115
Invalid object name 'Human Resource.Emp'.

```
alter synonym Emp for [Human Resource].Employee;
```

Incorrect syntax near 'synonym'.

```
create synonym Empl for [Human Resource].Employee;
```

```
select * from Empl;
```

Results | Messages

	EmpNo	Fname	Lname	DeptNo	Salary
1	2581	Elisa	Hansel	d2	3600
2	9031	Lisa	Bertoni	d2	4000
3	10102	Ann	Jones	d3	3000
4	18316	John	Barrimore	d1	2400
5	25348	Mathew	Smith	d3	2500
6	28559	Sybl	Moser	d1	2900
7	29346	James	James	d2	2800

Point5

```
--Point 5
UPDATE Company.Project
SET Budget = 1.1 * Budget
FROM Works_On W , [Human Resource].Employee E , Company.Project P
WHERE W.EmpNo = E.EmpNo
AND W.ProjectNo = P.Project_No
AND W.Job = 'Manager'
```

```
(2 rows affected)
```

	Project_No	Project_Na...	Budget
▶	p1	Apollo	132000
	p2	Gemini	95000
	p3	Mercury	204160
*	NULL	NULL	NULL

Point6

```
--Point 6
UPDATE Company.Department
SET DeptName = 'Sales'
FROM Company.Department D , [Human Resource].Employee E
WHERE E.DeptNo = D.Dept_No AND E.Fname = 'James'
```

```
(1 row affected)
```

Results | Messages

	EmpNo	Fname	Lname	DeptNo	Salary
1	2581	Elisa	Hansel	d2	3600
2	9031	Lisa	Bertoni	d2	4000
3	10102	Ann	Jones	d3	3000
4	18316	John	Barrimore	d1	2400
5	25348	Mathew	Smith	d3	2500
6	28559	Sybl	Moser	d1	2900
7	29346	James	James	d2	2800

	Dept_No	DeptName	Location
1	D1	Research	NY
2	D2	Sales	DS
3	D3	Marketing	KW

4

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7. Change the enter date for the projects for those employees who work in project p1 and belong to department 'Sales'. The new date is 12.12.2007.
8. Delete the information in the works_on table for all employees who work for the department located in KW.
9. Try to Create Login Named(ITIStud) who can access Only student and Course tablesfrom ITI DB then allow him to select and insert data into tables and deny Delete and update .(Use ITI DB)

Point 7

```
-- Point 7
UPDATE W
SET W.Enter_Date = '12/12/2007'
FROM Company.Project P , [Human Resource].Employee E , Company.Department D , Works_On W
WHERE W.EmpNo = E.EmpNo AND W.ProjectNo = P.Project_No AND E.DeptNo = D.Dept_No AND D.DeptName = 'Sales'
```

```
(2 rows affected)
```

	EmpNo	ProjectNo	Job	Enter_Date
1	9031	p1	Manager	2007-12-12
2	10102	p1	Analyst	2006-10-01
3	10102	p3	Manager	2012-01-01
4	18316	p2	NULL	2006-12-15
5	25348	p2	Clerk	2007-06-01
6	28559	p1	NULL	2007-08-01
7	29346	p2	NULL	2007-12-12

	EmpNo	Fname	Lname	DeptNo	Salary
1	2581	Elisa	Hansel	d2	3600
2	9031	Lisa	Bertoni	d2	4000
3	10102	Ann	Jones	d3	3000
4	18316	John	Barrimore	d1	2400
5	25348	Mathew	Smith	d3	2500
6	28559	Sybl	Moser	d1	2900
7	29346	James	James	d2	2800

	Dept_No	DeptName	Location
1	D1	Research	NY
2	D2	Sales	DS
3	D3	Marketing	KW

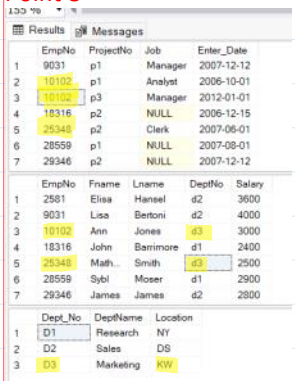
Point 8

Results Messages

EmpNo	ProjectNo	Job	Enter_Date

```
select * from Works_On
select * from [Human Resource].Employee
```

Point 8



Results Messages

	EmpNo	ProjectNo	Job	Enter_Date
1	9031	p1	Manager	2007-12-12
2	10102	p1	Analyst	2006-10-01
3	10102	p3	Manager	2012-01-01
4	18316	p2	NULL	2006-12-15
5	25348	p2	Clerk	2007-06-01
6	28559	p1	NULL	2007-08-01
7	29346	p2	NULL	2007-12-12

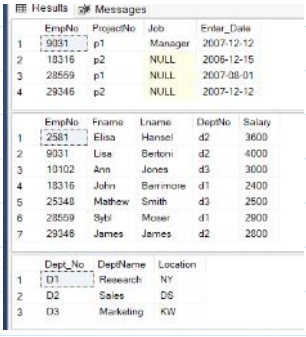
	EmpNo	Fname	Lname	DeptNo	Salary
1	2581	Elisa	Hansel	d2	3600
2	9031	Lisa	Bertoni	d2	4000
3	10102	Ann	Jones	d3	3000
4	18316	John	Barrimore	d1	2400
5	25348	Math...	Smith	d3	2500
6	28559	Sybl	Moser	d1	2900
7	29346	James	James	d2	2800

	Dept_No	DeptName	Location
1	D1	Research	NY
2	D2	Sales	DS
3	D3	Marketing	KW

```
select * from Works_On
select * from [Human Resource].Employee
select * from Company.Department
```

```
-- Point 8
DELETE FROM W
FROM Works_On as W INNER JOIN [Human Resource].Employee as E ON W.EmpNo=E.EmpNo INNER JOIN
Company.Department as D ON E.DeptNo = D.Dept_No
WHERE D.Location = 'KW'
```

```
(3 rows affected)
```



Results Messages

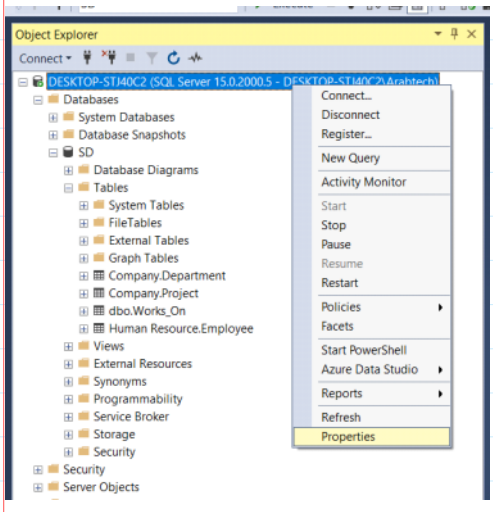
	EmpNo	ProjectNo	Job	Enter_Date
1	9031	p1	Manager	2007-12-12
2	18316	p2	NULL	2006-12-15
3	28559	p1	NULL	2007-08-01
4	29346	p2	NULL	2007-12-12

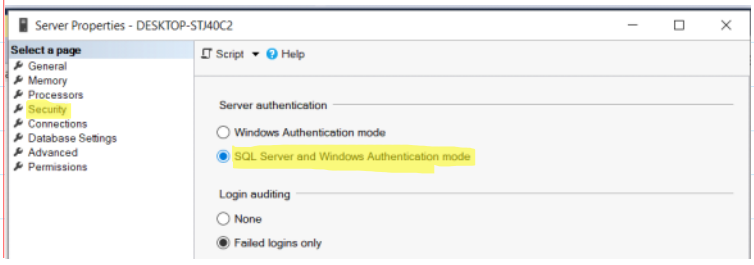
	EmpNo	Fname	Lname	DeptNo	Salary
1	2581	Elisa	Hansel	d2	3600
2	9031	Lisa	Bertoni	d2	4000
3	10102	Ann	Jones	d3	3000
4	18316	John	Barrimore	d1	2400
5	25348	Mathew	Smith	d3	2500
6	28559	Sybl	Moser	d1	2900
7	29348	James	James	d2	2800

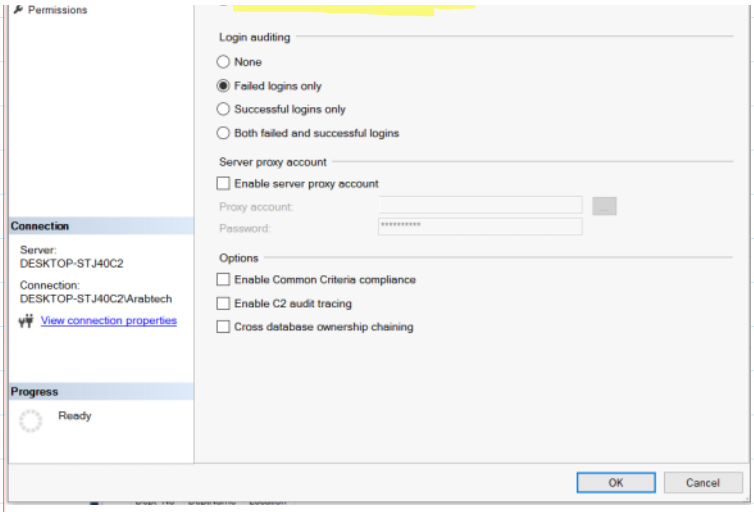
	Dept_No	DeptName	Location
1	D1	Research	NY
2	D2	Sales	DS
3	D3	Marketing	KW

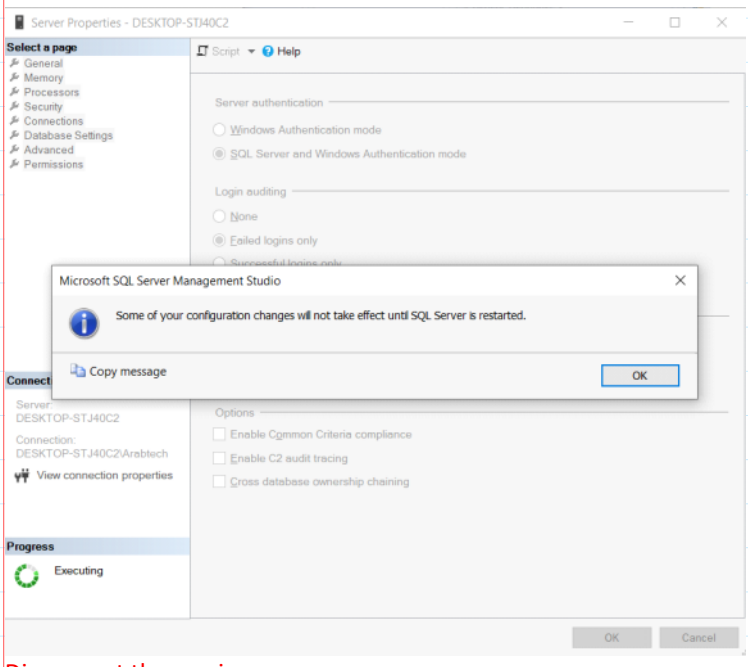
```
select * from Works_On
select * from [Human Resource].Employee
select * from Company.Department
```

Point 9

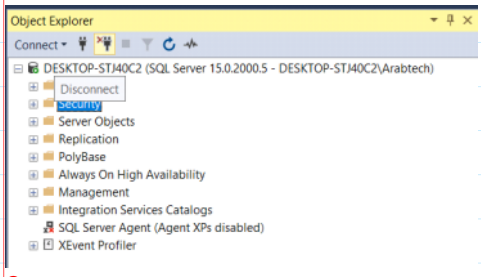




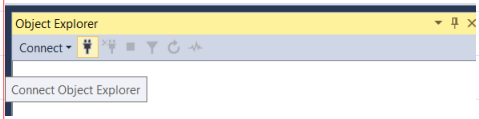


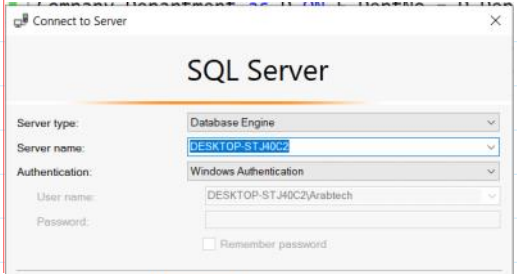


Disconnect the service

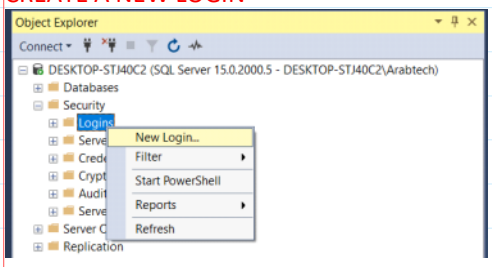


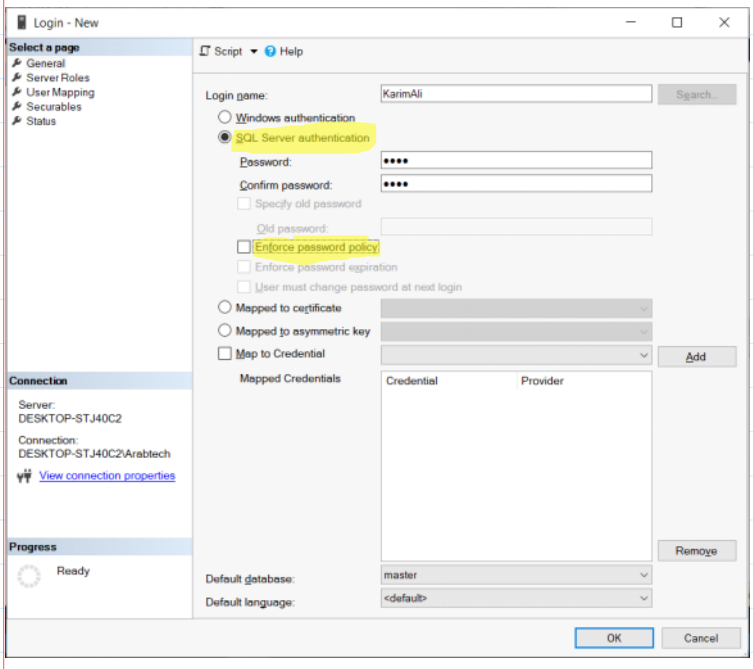
Connect

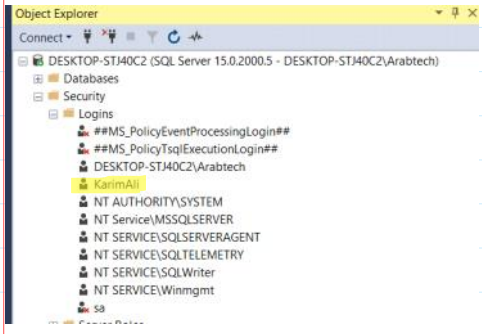




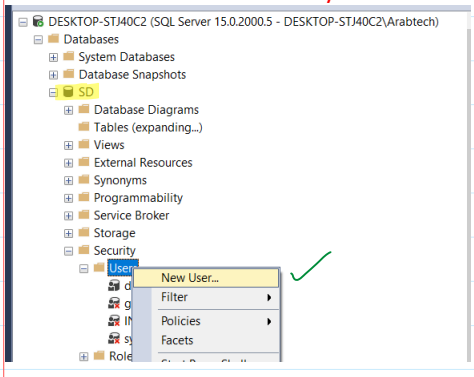
CREATE A NEW LOGIN

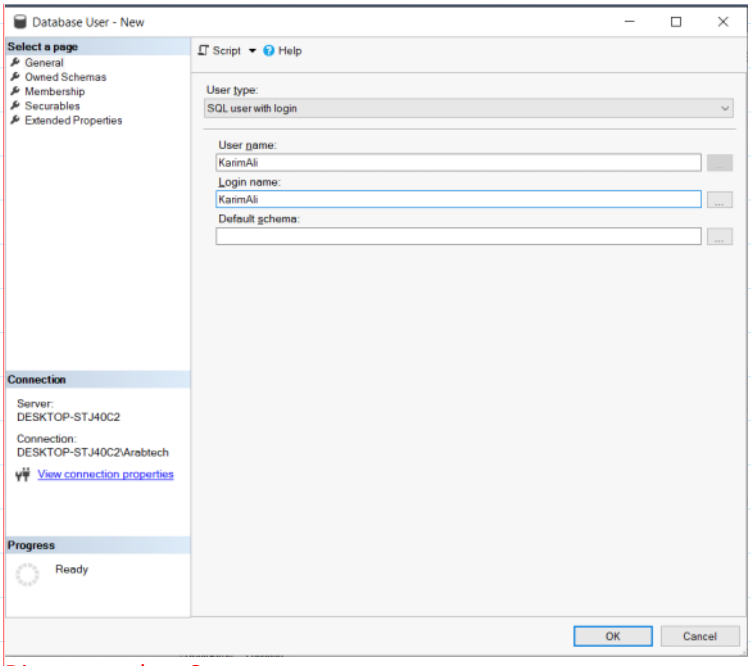




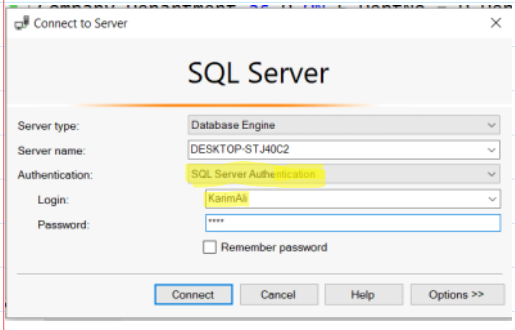


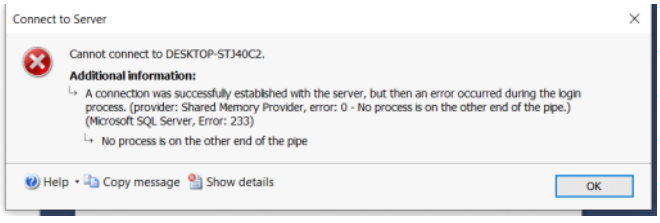
ADD THE LOGIN as a USER to you DATABASE

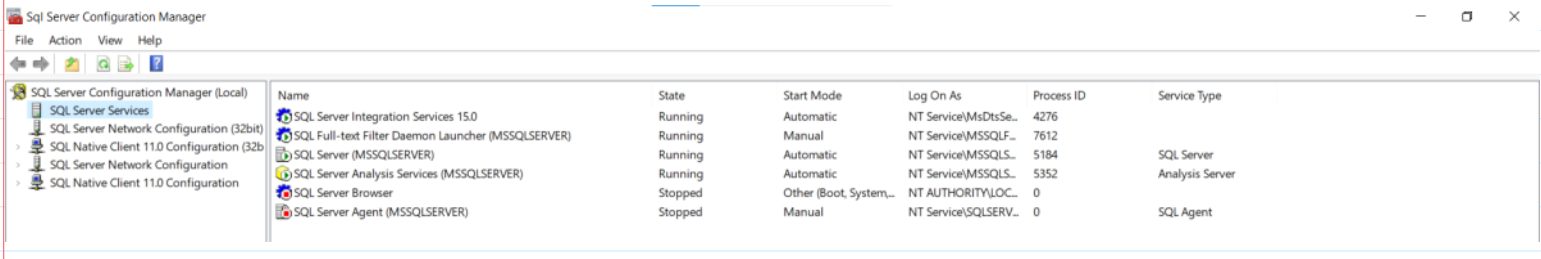


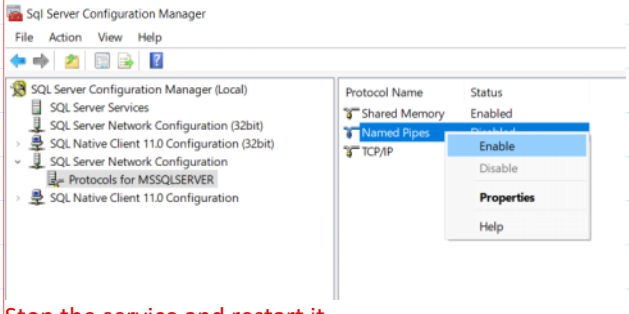


Disconnect then Connect

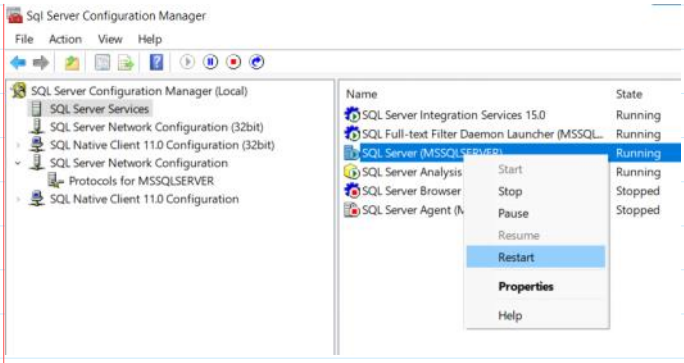


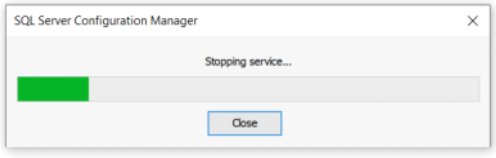


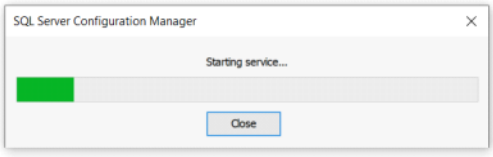


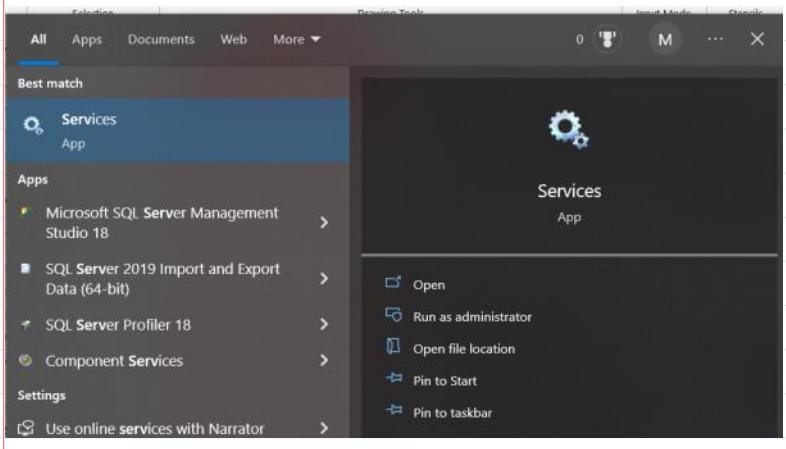


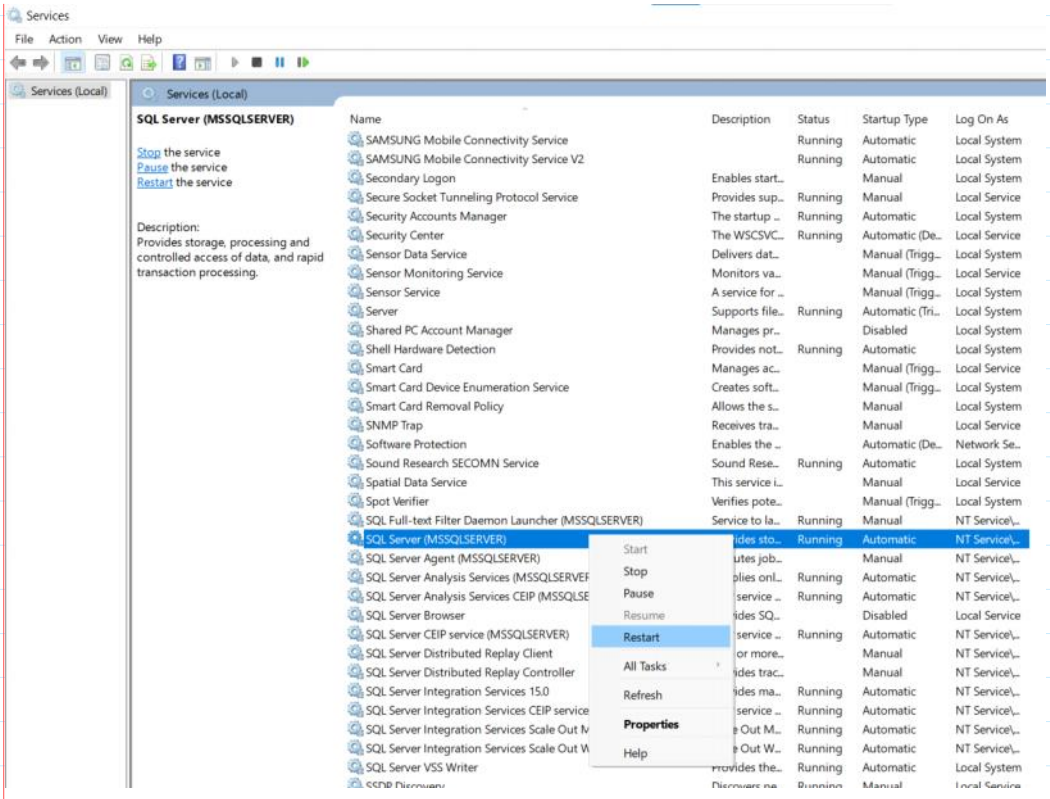
Stop the service and restart it


Sql Server Configuration Manager
File Action View Help
SQL Server Configuration Manager (Local)
SQL Server Services
SQL Server Network Configuration (32bit)
SQL Native Client 11.0 Configuration (32bit)
SQL Server Network Configuration
Protocols for MSSQLSERVER
SQL Native Client 11.0 Configuration
Name
State
SQL Server Integration Services 15.0
Running
SQL Full-text Filter Daemon Launcher (MSSQL...
Running
SQL Server (MSSQLSERVER)
Running
SQL Server Analysis
Running
SQL Server Browser
Stopped
SQL Server Agent (N
Stopped
Start
Stop
Pause
Resume
Restart
Properties
Help

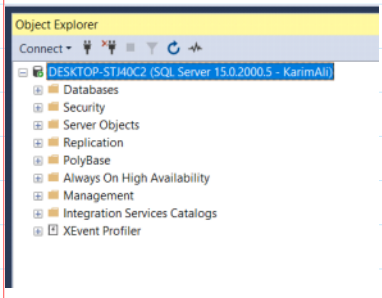

SQL Server Configuration Manager
Stopping service...
Close


SQL Server Configuration Manager
Starting service...
Close

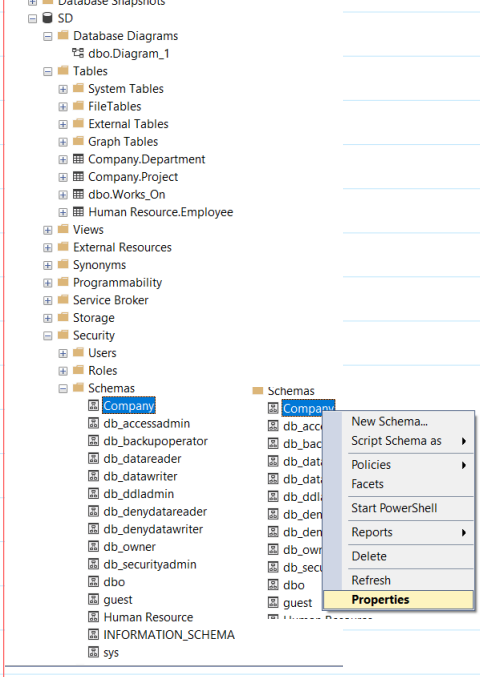

All
Apps
Documents
Web
More
Best match
Services
App
Apps
Microsoft SQL Server Management Studio 18
SQL Server 2019 Import and Export Data (64-bit)
SQL Server Profiler 18
Component Services
Settings
Use online services with Narrator
Services
App
Open
Run as administrator
Open file location
Pin to Start
Pin to taskbar

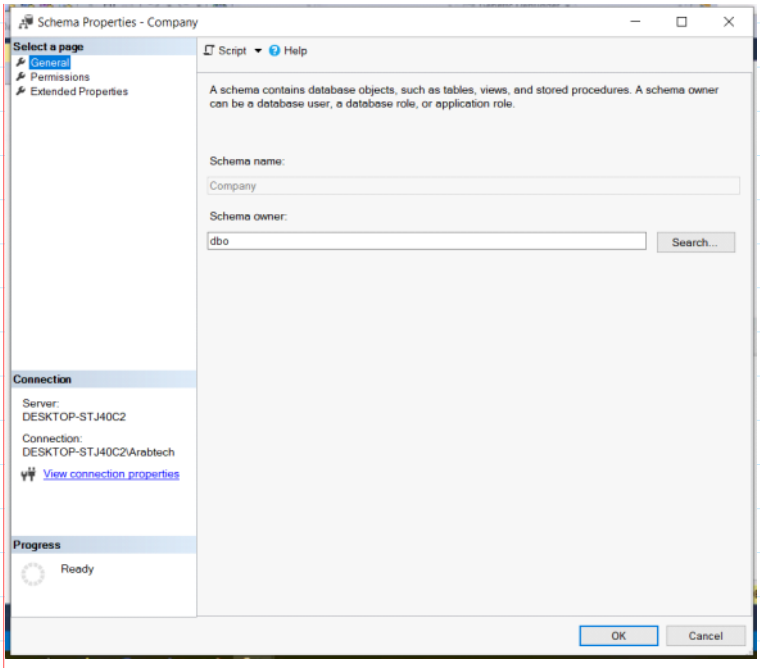


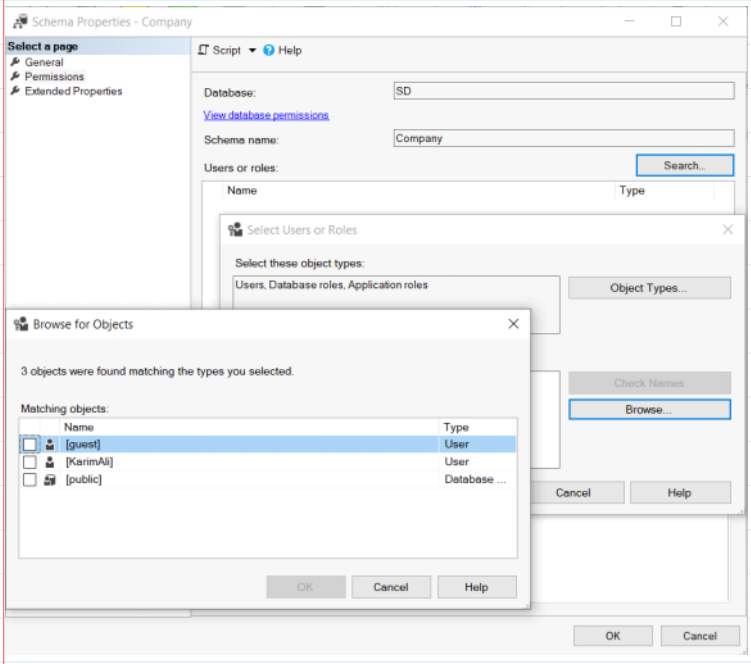
Connected..

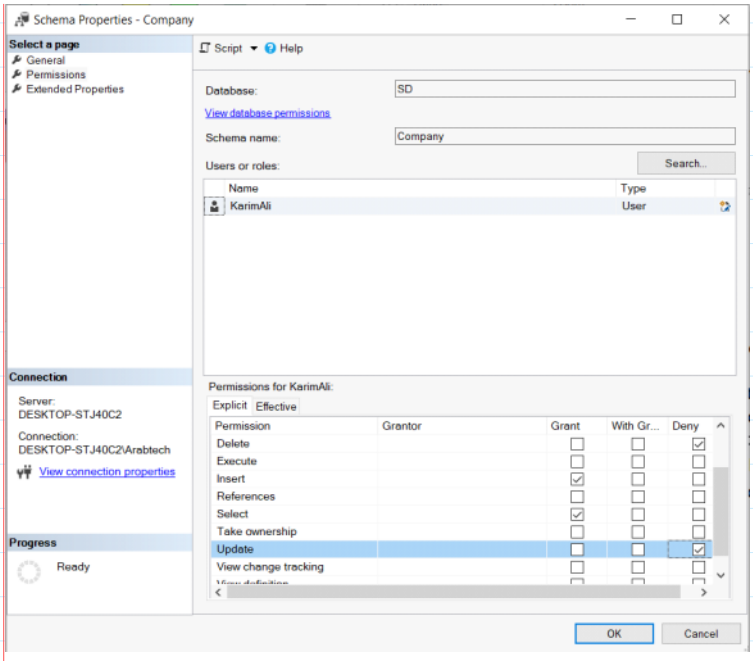


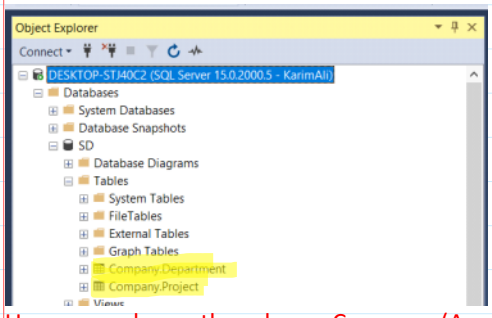
Giving the user permissions on a certain schema



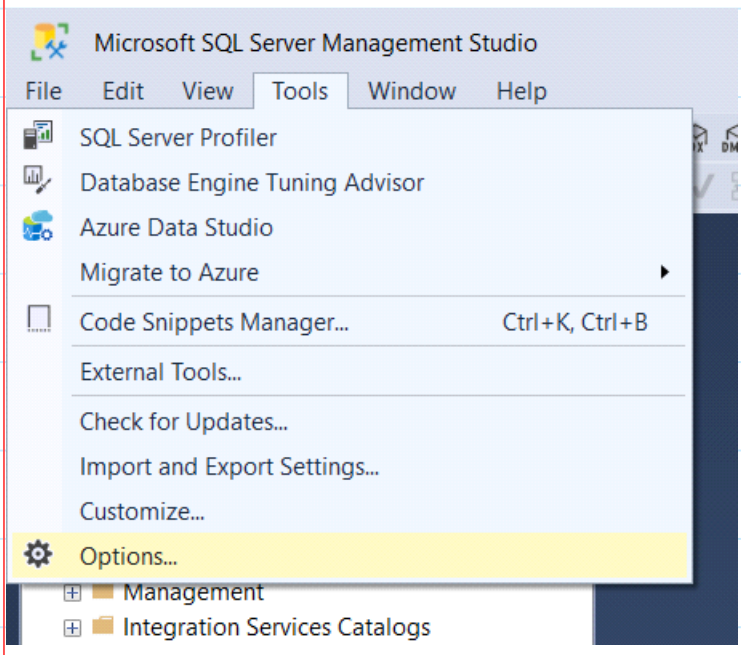
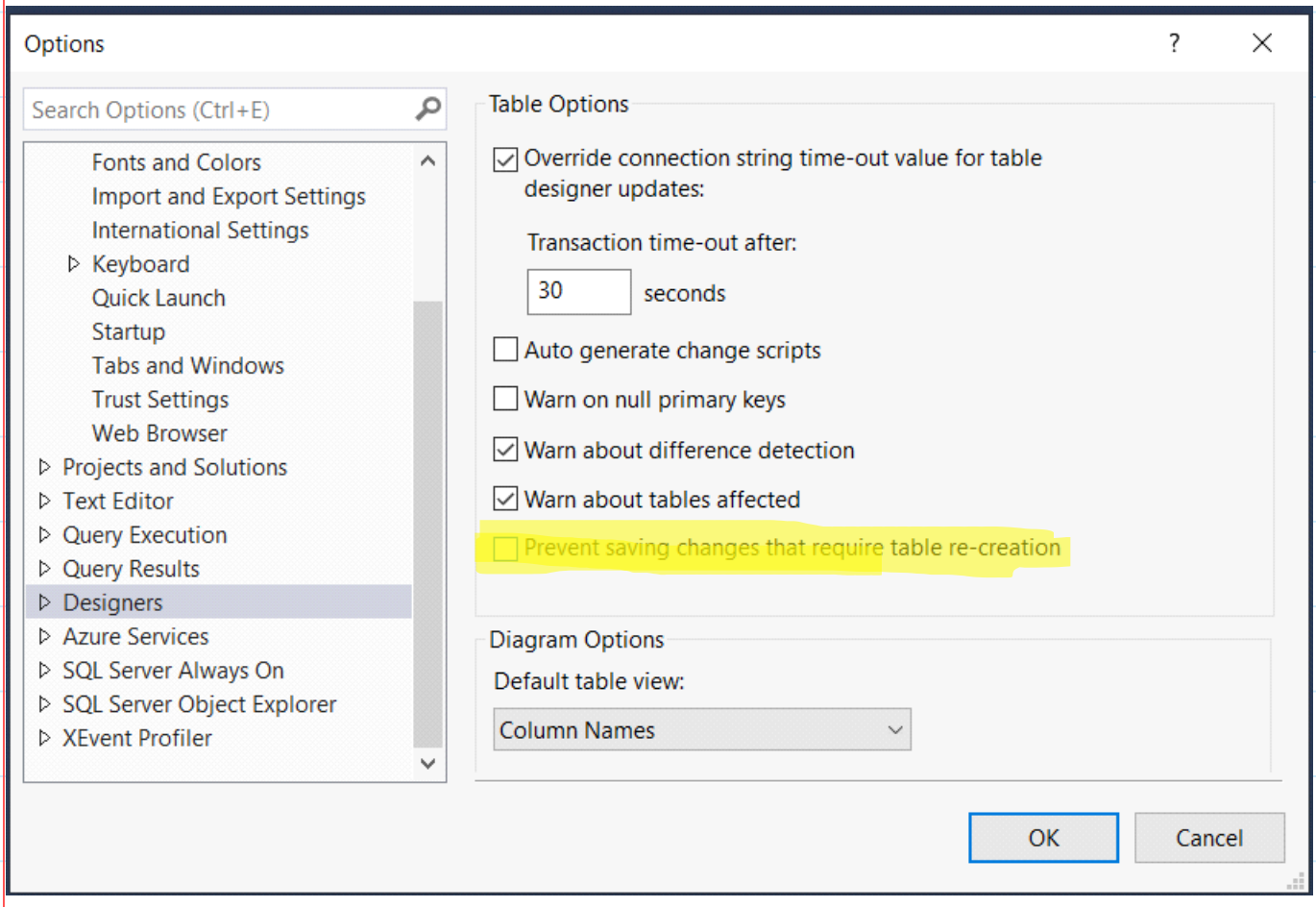

Schema Properties - Company
Select a page
General
Permissions
Extended Properties
Script
Help
A schema contains database objects, such as tables, views, and stored procedures. A schema owner can be a database user, a database role, or application role.
Schema name:
Company
Schema owner:
dbo
Search...
Connection
Server:
DESKTOP-STJ40C2
Connection:
DESKTOP-STJ40C2\Arabtech
View connection properties
Progress
Ready
OK
Cancel


Schema Properties - Company
Select a page
General
Permissions
Extended Properties
Script
Help
Database:
SD
View database permissions
Schema name:
Company
Users or roles:
Search...
Name
Type
Select Users or Roles
Select these object types:
Users, Database roles, Application roles
Object Types...
Check Names
Browse...
Cancel
Help
Browse for Objects
3 objects were found matching the types you selected.
Matching objects:
Name
Type
[guest]
User
[KarimAli]
User
[public]
Database ...
OK
Cancel
Help
OK
Cancel





User can only see the schema Company (According to his permission)

Configurations

Saturday, February 18, 2023 5:00 PM