

DBMS LAB ASSIGNMENT 7

Name : Abhisek Rana

Reg No. : 19BCS003

1. Write two stored Procedures relevant to your database.

A)

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'T8_Hospital_Database', including tables, views, and security. The main window shows a SQL query window with the following code:

```
CREATE PROCEDURE doctors
AS
BEGIN
SELECT * FROM Doctor
END
GO
EXEC doctors
```

The Results pane on the right displays the output of the stored procedure, which is a list of doctors with their details. The data is as follows:

DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	Abhishek Kumar	Covid	123456789	Flu Expert	58000
2	Gabru	Covid	1111111112	Flu Expert	58000
3	Mehndi	Bird flu	1111111113	Flu Expert	38000
4	Bassi	Bird flu	1111111114	Bird Watcher	38000
5	Brar	Fever	1111111115	Cook	48000
6	Shaan	Cold	1111111116	Singer	48000
7	Dawood		1111111117	Drug Lord	88000
8	Mahes	Stomach Ache	1111111118	Flu Expert	18000
9	Bhangar		1111111119	Hacker	28000
10	Bhau		1111111120	Brother	28000
11	Shankar	Gas	1111111121	Tribal	38000
12	Lakshman	Nuclear Radiation	1111111130	Medical	18000
13	Sweta	Burns	1111111122	Call Center	48000
14	Pewds	Amnesia	1111111123	Gamer	98000
15	Kevin	Amnosea	1111111124	Chaotic	68000
16	Ken		1111111125	Stramer	28000
17	Buff		1111111126	Flu Expert	38000
18	Kalki		1111111127	Neurologist	38000
19	Reva	Stress	1111111128	Psychologist	38000
20	Mercedes		1111111129	Enterprenaur	38000

B)

SQLQuery1.sql - localhost.T8_Hospital_Database (LAPTOP-HG2GICNP\abhis (54))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

T8_Hospital_Database Execute

Object Explorer

Connect

localhost (SQL Server 15.0.2000.5 - LAPTOP-HG2GICNP\abhis)

- Databases
 - System Databases
 - Database Snapshots
 - Hospital
 - T8_Hospital_Database
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Doctor
 - Columns
 - DID (int, not null)
 - Doctor_Name (varchar(45), not null)
 - Current_Case (varchar(45), null)
 - DPhone_Number (varchar(10), not null)
 - Qualification (varchar(45), not null)
 - Salary (int, not null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - dbo.FEE
 - Columns
 - DID (int, not null)
 - Current_Case (varchar(45), null)
 - paydate (date, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics

SQLQuery1.sql - localhost.T8_Hospital_Database (LAPTOP-HG2GICNP\abhis (54))*

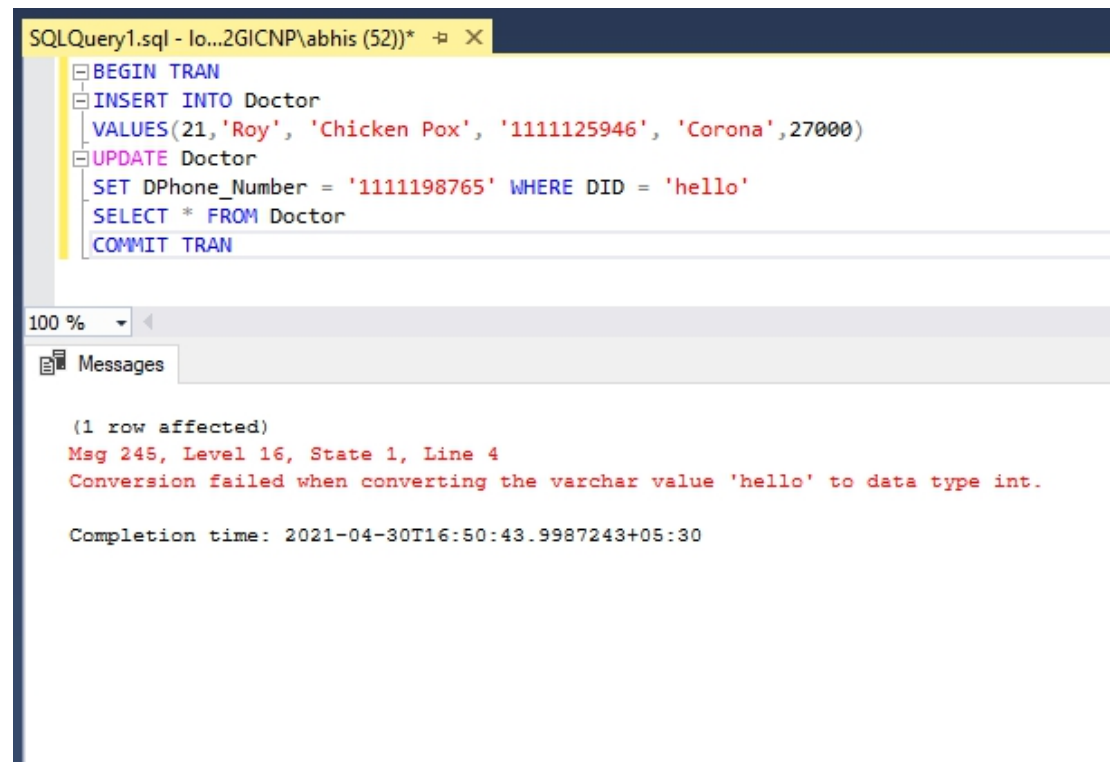
```
CREATE PROCEDURE payments
AS
BEGIN
SELECT * FROM FEE
WHERE DID<5
END
GO
EXEC payments
```

100 %

Results Messages

	DID	Current_Case	paydate
1	1	Covid	2005-03-03
2	2	Covid	2005-11-07
3	3	Bird flu	2006-12-15
4	4	Bird flu	2008-07-10

2. Write a transaction to illustrate atomicity (related to your database)



The screenshot shows a SQL Server Enterprise Manager window with a script titled 'SQLQuery1.sql'. The script contains the following SQL statements:

```
BEGIN TRAN
INSERT INTO Doctor
VALUES(21, 'Roy', 'Chicken Pox', '1111125946', 'Corona', 27000)
UPDATE Doctor
SET DPhone_Number = '1111198765' WHERE DID = 'hello'
SELECT * FROM Doctor
COMMIT TRAN
```

Below the script, the 'Messages' pane shows the execution results:

```
(1 row affected)
Msg 245, Level 16, State 1, Line 4
Conversion failed when converting the varchar value 'hello' to data type int.

Completion time: 2021-04-30T16:50:43.9987243+05:30
```

As the updation doesn't occur because of wrong input data type, the insertion doesn't occur too because of atomicity.

3. Write a transaction to illustrate isolation level. It can be on commit or uncommit read (related to your database)

SQLQuery1.sql - lo...2GICNP\abhis (54))*

```
BEGIN TRAN
UPDATE Doctor
SET Current_Case = 'Corona'
WHERE DID = 1
SELECT * FROM Doctor
COMMIT TRAN
```

100 %

Results Messages

	DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	1	Abhishek Kumar	Corona	123456789	Flu Expert	58000
2	2	Gabru	Covid	111111112	Flu Expert	58000
3	3	Mehndi	Bird flu	111111113	Flu Expert	38000
4	4	Bassi	Bird flu	111111114	Bird Watcher	38000
5	5	Brar	Fever	111111115	Cook	48000
6	6	Shaan	Cold	111111116	Singer	48000
7	7	Dawood		111111117	Drug Lord	88000
8	8	Mahes	Stomach Ache	111111118	Flu Expert	18000
9	9	Bhangar		111111119	Hacker	28000
10	10	Bhau		111111120	Brother	28000
11	11	Shankar	Gas	111111121	Tribal	38000
12	12	Lakshman	Nuclear Radiation	111111130	Medical	18000
13	13	Sweta	Burns	111111122	Call Center	48000
14	14	Pewds	Amnesia	111111123	Gamer	98000
15	15	Kevin	Amnosea	111111124	Chaotic	68000
16	16	Ken		111111125	Stramer	28000
17	17	Buff		111111126	Flu Expert	38000
18	18	Kalki		111111127	Neurologist	38000
19	19	Reva	Stress	111111128	Psychologist	38000
20	20	Mercedes		111111129	Enterprenaur	38000

SQLQuery1.sql - lo...2GICNP\abhis (54))*

```
SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED  
BEGIN TRAN  
Select * from Doctor  
WHERE DID = 1
```

100 %



Results



Messages

	DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	1	Abhishek Kumar	Corona	123456789	Flu Expert	58000