DBMS Lab Assignment-7

K.Priyam

19BCS052

Group 2: Hotel Database

Q1) Write two stored Procedures relevant to your database.

OUTPUT

```
AS

SELECT * FROM T2_Reservation WHERE Check_out_date = @input;

GO

□ CREATE PROCEDURE Selectemployeebyname @emp_name varchar(max), @emp_salary int

AS

SELECT * FROM emp_info WHERE empname = @emp_name AND Salary = @emp_salary;

GO

□ EXEC Check_out_list @input = '1999-02-22';

EXEC Selectemployeebyname @emp_name='Jax', @emp_salary=10000;
```



- Q2) Write a transaction to illustrate atomicity (related to your database)
- T2_Customer table before transaction

```
| The state | The
```

OUTPUT after transaction is successful

```
USE HOTEL;
GO

BEGIN TRANSACTION

UPDATE T2_Customer SET Customer_Name='Gaikwad' WHERE Customer_ID=1

EINSERT INTO T2_Customer

VALUES(5, 'Sam Curran', 123456789, 'Chennai', 'Tamilnadu', 534674, 'kuttysingam@gmail.com')

COMMIT TRANSACTION

SELECT * FROM T2_Customer
```



Now, let's insert wrong information in the table on purpose to fail the insertion.

OUTPUT after transaction

```
USE HOTEL;
GO

EBEGIN TRANSACTION

UPDATE T2_Customer SET Email_ID='rocketraja@gmail.com' WHERE Customer_Name='Gaikwad'

EINSERT INTO T2_Customer

VALUES('Ali',123456788,'chennai','Tamilnadu',534674,'valimaiupdate@gmail.com')

COMMIT TRANSACTION

SELECT * FROM T2_Customer
```

```
96 • Messages
fag 213, Level 16, State 1, Line 8
Column name or number of supplied values does not match table definition.
Completion time: 2021-04-29716:10:13.8675801+05:80
```

```
USE HOTEL;
G0

BEGIN TRANSACTION

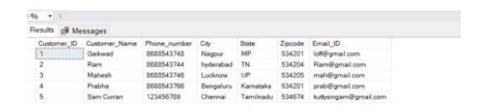
UPDATE T2_Customer SET Email_ID='rocketraja@gmail.com' WHERE Customer_Name='Gaikwad'

EINSERT INTO T2_Customer

VALUES('Ali',123456788,'chennai','Tamilnadu',534674,'valimaiupdate@gmail.com')

COMMIT TRANSACTION

SELECT * FROM T2_Customer
```



When there is an error in the transaction, it gets rolled back so that the table has its previous values. The table didn't get updated.

This implies that all the statements inside a transaction should either succeed or fail. This is the Atomicity Property.