DBMS Lab Assignment-7

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Database:- Travel Agency

1. Write two stored Procedures relevant to your database.

Query:

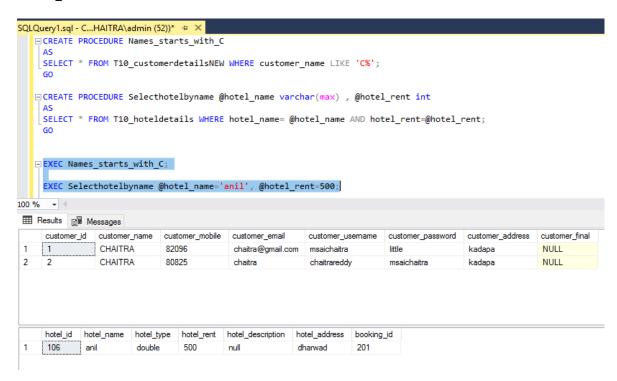
```
CREATE PROCEDURE Names_starts_with_C
AS
SELECT * FROM T10_customerdetailsNEW WHERE customer_name LIKE 'C%';
GO

CREATE PROCEDURE Selecthotelbyname @hotel_name varchar(max), @hotel_rent int
AS
SELECT * FROM T10_hoteldetails WHERE hotel_name= @hotel_name AND
hotel_rent=@hotel_rent;
GO

EXEC Names_starts_with_C;

EXEC Selecthotelbyname @hotel_name='anil', @hotel_rent=500;
```

Output:



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

T10_packagedetails table before transaction:

100 % 🔻 🖪									
⊞ Results									
	package_id	package_tour_id	package_name	package_amount	package_total	package_type	package_description	package_Final	hotel_id
1	301	401	koorg	500	500	vacation	null	500	204
2	302	402	ooty	500	500	vacation	null	500	106
3	303	403	pune	600	600	vacation	null	600	107
4	304	404	mysore	800	800	vacation	null	800	108
5	305	405	kodaikanal	700	700	vacation	NULL	700	109

AFTER TRANSACTION (when given input is valid): **QUERY**:

USE T10_Travel;

BEGIN TRANSACTION

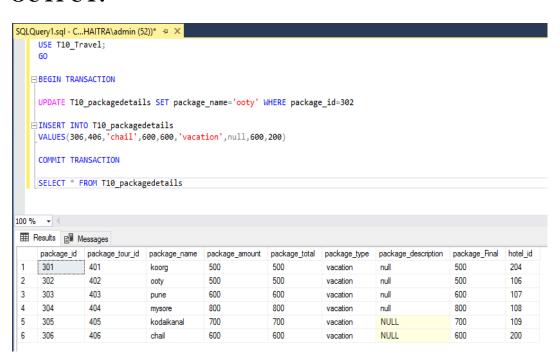
UPDATE T10_packagedetails SET package_name='ooty' WHERE package_id=302

INSERT INTO T10_packagedetails VALUES(306,406,'chail',600,600,'vacation',null,600,200)

COMMIT TRANSACTION

SELECT * FROM T10_packagedetails

OUTPUT:



AFTER TRANSACTION (when given input is not valid): **QUERY**:

USE T10_Travel;

BEGIN TRANSACTION

UPDATE T10_packagedetails SET package_name='ooty' WHERE package_id=303

INSERT INTO T10_packagedetails VALUES('truf',400000,504, null,'trip',null,600,200)

COMMIT TRANSACTION

SELECT * **FROM** T10_packagedetails

OUTPUT:

```
SQLQuery1.sql - C...HAITRA\admin (52))* → ×
    USE T10_Travel;
   □BEGIN TRANSACTION
     UPDATE T10_packagedetails SET package_name='ooty' WHERE package_id=303
   □INSERT INTO T10_packagedetails
     VALUES('truf',400000,504,null,'trip',null,600,200)
     COMMIT TRANSACTION
    SELECT * FROM T10_packagedetails
100 % +
Results Messages
     package_id package_tour_id package_name package_amount package_total package_type package_description package_Final hotel_id
                                                                                                   500
    301 401 koorg 500 500 vacation null
                                                                                                                204
         402 ooty 500 500 vacation
403 pune 600 600 vacation
404 mysore 800 800 vacation
405 kodaikanal 700 700 vacation
406 chail 600 600 vacation
                                                                                                    500
                                                                                                                 106
     303
                                                                                   null
                                                                                                    600
                                                                                                                107
     304
                                                                                   null
                                                                                                    800
                                                                                                                108
                                                                                   NULL
NULL
     305
                                                                                                    700
                                                                                                                109
                                                                                   NULL
```

From here we can see that when error occurs in the transaction it gets rolled back. So the table did not get updated and shows previous values. It means all statements inside a transaction should either get succeed or fail as a unit. So this is the atomicity property.

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

Query (Window 1):-

```
USE T10_Travel;
GO

BEGIN TRAN Trans_Isolation1

UPDATE T10_customerdetailsNEW

SET customer_name = 'Bond'
WHERE customer_id = 1
```

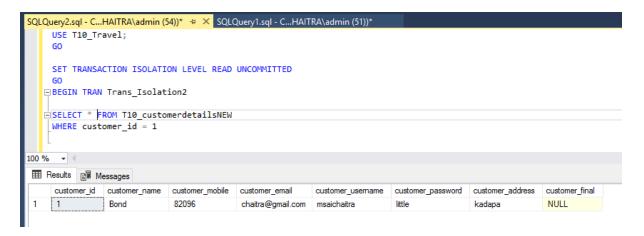
Output:-

Query (Window 2):-

```
USE T10_Travel;
```

SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED GO BEGIN TRAN Trans Isolation2 SELECT * FROM T10_customerdetailsNEW WHERE customer_id = 1

Output:



When we set the isolation level to read uncommitted, we will be able to see the customer_ name set to 'Bond', called Dirty Read.