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<u>DBMS Lab Assignment – Transactions & Stored Procedures</u>

Question 1: Write two stored Procedures relevant to your database

Query 1:

CREATE PROCEDURE SelectCustomers AS
SELECT * FROM T3_CustomerDetails
GO;

EXEC SelectCustomers;

Output:

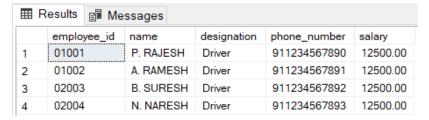
⊞ F	Results 🗐 Me	essages					
	customer_id	first_name	last_name	age	gender	phone	
1	0000000001	Kiran	Kumar	31	М	91999999999	
2	0000000002	Charan	Rao	28	М	91999999999	
3	000000003	Farhan	Abdul	37	М	91999999999	
4	0000000004	Kissan	Chary	21	М	91999999999	
5	000000005	Laban	Seth	18	М	91999999999	
6	000000006	Cheman	Kumar	35	М	91999999999	
7	0000000007	Eeshwar	Prasad	53	М	91999999999	
8	8000000008	Raghavendra	Swamy	42	М	91999999999	
9	000000009	Shivaji	Chatrapati	61	М	91999999999	
10	000000010	Chakram	Kumar	14	М	91999999999	
11	000000011	Jai	Krishna	28	M	9199999999	
12	000000012	Prabha	lingaraju	41	M	9199999999	
13	000000013	Somesh	Thakur	33	M	9199999999	
14	000000014	Deepak	Chowdary	19	M	9199999999	
15	000000015	Karthik	Sajjan	20	М	91999999918	
16	000000016	Suvarna	Ram	54	F	9199999999	
17	000000017	Sunder	Ram	54	М	9199999999	
18	000000018	Manaswini	Ksheeraja	16	F	91999999912	
19	000000019	Shreya	Kuppa	8	F	91999999918	
20	0000000020	Srinidhi	Kuppa	5	F	9199999999	
21	0000000021	Krishna	Paancha	19	М	7993672936	
22	0000000024	Rathore	Vikram	35	М	9595951717	

Query 2:

```
CREATE PROCEDURE Employees @Designation varchar(15)
AS

SELECT * FROM T3_EmployeeDetails WHERE Designation =
@Designation;
EXEC Employees @Designation = 'Driver';
```

Output:



Question 2: Write a transaction to illustrate atomicity

Query 1:

BEGIN TRAN

```
UPDATE T3_EmployeeDetails SET Salary = 15000.00 WHERE
Designation = 'Driver';

UPDATE T3_PackageDetails SET Package_Name = 'Kulu Manali' WHERE
Booking_Id = 0200013;

COMMIT TRAN
SELECT * FROM T3_EmployeeDetails;
SELECT * FROM T3_PackageDetails;
```

Output:

⊞ Results 🗐 Messages										
	employee_id	name	designation	phone_number		salary				
1	01001	P. RAJESH	Driver	911234567890		15000.00				
2	01002	A. RAMESH	Driver	911234567891		15000.00				
3	01005	R. PARESH	Cleaner	911234567894		8000.00				
4	01007	O. JAYESH	Luggage Manager	9112345678	11234567897					
5	02003	B. SURESH	Driver	911234567892		15000.00				
6	02004	N. NARESH	Driver	911234567893		15000.00				
7	02006	T. MALLESH	Cleaner	9112345678	911234567895					
8	02008	P. PARAMESH	Luggage Manager	91123456789		5000.00				
	booking_id	package_name	package_description	cost star		ting_point				
1	0100001	Kulu Manali	Chill Out!	25000.00 Hyd		derabad				
2	0100002	Kulu Manali	Chill Out!	25000.00	Hyd	derabad				
3	0100003	Kulu Manali	Chill Out!	25000.00 Hyd		derabad				
4	0100004	Kulu Manali	Chill Out!	25000.00 Hyd		derabad				
5	0100005	Kulu Manali	Chill Out!	25000.00 Hyd		derabad				
6	0100006	Kulu Manali	Chill Out!	25000.00 Hyd		derabad				
7	0100007	Kulu Manali	Chill Out!	25000.00 Hyd		derabad				
8	0100008	Kulu Manali	Chill Out!	25000.00 Hyd		derabad				
9	0100009	Kulu Manali	Chill Out!	25000.00 Hyde		derabad				
10	0100010	Kulu Manali	Chill Out!	25000.00 Hydera		derabad				
11	0200011	Manasarovar	Have a nice glimps	50000.00 Hyderab		derabad				
12	0200012	Manasarovar	Have a nice glimps	50000.00) Hyderabad					
13	0200013	Kulu Manali	Have a nice glimps	50000.00	Hyderabad					
14	0200014	Manasarovar	Have a nice glimps	50000.00	Hyderabad					
15	0200015	Manasarovar	Have a nice glimps	50000.00	Hyderabad					
16	0200016	Manasarovar	Have a nice glimps	50000.00	Hyderabad					
17	0200017	Manasarovar	Have a nice glimps	50000.00	Hyderabad					
18	0200018	Manasarovar	Have a nice glimps	50000.00	Hyderabad					
19	0200019	Manasarovar	Have a nice glimps	50000.00	Hyderabad					
20	0200020	Manasarovar	Have a nice glimps	50000.00	Hyderabad					

In the case of an atomic transaction, the update on two separate tables will commit together or will roll back together.

Question 3: Write a transaction to illustrate isolation level. It can be on commit or uncommit read.

Query:

Window 1:

BEGIN TRAN Isolation1

UPDATE T3_CustomerDetails SET Last_Name = 'John' WHERE Age < 14;</pre>

Window 2:

SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED

BEGIN TRAN Isolation2 SELECT * FROM T3_CustomerDetails WHERE Age
< 14;</pre>

Output:

