

KUPPA VENKATA KRISHNA PAANCHAJANYA

Registration No.: 19BCS063

DBMS Lab Assignment – Transactions & Stored Procedures

Question 1: Write two stored Procedures relevant to your database

Query 1:

```
CREATE PROCEDURE SelectCustomers AS
```

```
SELECT * FROM T3_CustomerDetails
```

```
GO;
```

```
EXEC SelectCustomers;
```

Output:

	customer_id	first_name	last_name	age	gender	phone
1	0000000001	Kiran	Kumar	31	M	919999999999
2	0000000002	Charan	Rao	28	M	919999999998
3	0000000003	Farhan	Abdul	37	M	919999999997
4	0000000004	Kissan	Chary	21	M	919999999996
5	0000000005	Laban	Seth	18	M	919999999995
6	0000000006	Cheman	Kumar	35	M	919999999994
7	0000000007	Eeshwar	Prasad	53	M	919999999993
8	0000000008	Raghavendra	Swamy	42	M	919999999992
9	0000000009	Shivaji	Chatrapati	61	M	919999999991
10	0000000010	Chakram	Kumar	14	M	919999999990
11	0000000011	Jai	Krishna	28	M	919999999912
12	0000000012	Prabha	lingaraju	41	M	919999999913
13	0000000013	Somesh	Thakur	33	M	919999999914
14	0000000014	Deepak	Chowdary	19	M	919999999915
15	0000000015	Karthik	Sajjan	20	M	919999999189
16	0000000016	Suvarna	Ram	54	F	919999999979
17	0000000017	Sunder	Ram	54	M	919999999923
18	0000000018	Manaswini	Ksheeraja	16	F	919999999122
19	0000000019	Shreya	Kuppa	8	F	919999999187
20	0000000020	Srinidhi	Kuppa	5	F	919999999964
21	0000000021	Krishna	Paancha...	19	M	7993672936
22	0000000024	Rathore	Vikram	35	M	9595951717

Query 2:

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

```
AS
```

```
SELECT * FROM T3_EmployeeDetails WHERE Designation =  
@Designation;
```

```
EXEC Employees @Designation = 'Driver';
```

Output:

	employee_id	name	designation	phone_number	salary
1	01001	P. RAJESH	Driver	911234567890	12500.00
2	01002	A. RAMESH	Driver	911234567891	12500.00
3	02003	B. SURESH	Driver	911234567892	12500.00
4	02004	N. NARESH	Driver	911234567893	12500.00

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:

	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	911234567897	5000.00
5	02003	B. SURESH	Driver	911234567892	15000.00
6	02004	N. NARESH	Driver	911234567893	15000.00
7	02006	T. MALLESH	Cleaner	911234567895	8000.00
8	02008	P. PARAMESH	Luggage Manager	911234567898	5000.00

	booking_id	package_name	package_description	cost	starting_point
1	0100001	Kulu Manali	Chill Out!	25000.00	Hyderabad
2	0100002	Kulu Manali	Chill Out!	25000.00	Hyderabad
3	0100003	Kulu Manali	Chill Out!	25000.00	Hyderabad
4	0100004	Kulu Manali	Chill Out!	25000.00	Hyderabad
5	0100005	Kulu Manali	Chill Out!	25000.00	Hyderabad
6	0100006	Kulu Manali	Chill Out!	25000.00	Hyderabad
7	0100007	Kulu Manali	Chill Out!	25000.00	Hyderabad
8	0100008	Kulu Manali	Chill Out!	25000.00	Hyderabad
9	0100009	Kulu Manali	Chill Out!	25000.00	Hyderabad
10	0100010	Kulu Manali	Chill Out!	25000.00	Hyderabad
11	0200011	Manasarovar	Have a nice glimps...	50000.00	Hyderabad
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;
```

Window 2:

```
SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED
```

```
BEGIN TRAN Isolation2 SELECT * FROM T3_CustomerDetails WHERE Age < 14;
```

Output:

Results		Messages				
	customer_id	first_name	last_name	age	gender	phone
1	0000000019	Shreya	John	8	F	919999999187
2	0000000020	Srinidhi	John	5	F	919999999964