

# Lab Asg 7

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1. Write two stored Procedures relevant to your database.

## QUERY 1

```
CREATE PROCEDURE SelectAllCustomers AS  
SELECT * FROM T3_CUSTOMER_DETAILS GO;  
EXEC SelectAllCustomers;
```

## Output

|    | Customer_ID | First_Name  | Last_Name  | Age | Gender | Phone_No      | Address |
|----|-------------|-------------|------------|-----|--------|---------------|---------|
| 1  | 0000000001  | Karusala    | Deepak     | 18  | M      | 7702385485    | NULL    |
| 2  | 0000000002  | Charan      | Rao        | 28  | M      | 919999999998  | NULL    |
| 3  | 0000000003  | Farhan      | Abdul      | 37  | M      | 919999999997  | NULL    |
| 4  | 0000000004  | Kissan      | Chary      | 21  | M      | 919999999996  | NULL    |
| 5  | 0000000005  | Laban       | Seth       | 18  | M      | 919999999995  | NULL    |
| 6  | 0000000006  | Cheman      | Kumar      | 35  | M      | 919999999994  | NULL    |
| 7  | 0000000007  | Eeshwar     | Prasad     | 53  | M      | 919999999993  | NULL    |
| 8  | 0000000008  | Raghavendra | Swamy      | 42  | M      | 919999999992  | NULL    |
| 9  | 0000000009  | Shivaji     | Chatrapati | 61  | M      | 919999999991  | NULL    |
| 10 | 0000000010  | Chakram     | Kumar      | 14  | M      | 919999999990  | NULL    |
| 11 | 0000000011  | Jai         | Krishna    | 28  | M      | 9199999999912 | NULL    |
| 12 | 0000000012  | Prabha      | lingaraju  | 41  | M      | 9199999999913 | NULL    |
| 13 | 0000000013  | Somesh      | Thakur     | 33  | M      | 9199999999914 | NULL    |
| 14 | 0000000014  | Deepak      | Chowdary   | 19  | M      | 9199999999915 | NULL    |
| 15 | 0000000015  | Karthik     | Sajjan     | 20  | M      | 9199999999189 | NULL    |
| 16 | 0000000016  | Suvarna     | Ram        | 54  | F      | 919999999979  | NULL    |
| 17 | 0000000017  | Sunder      | Ram        | 54  | M      | 919999999923  | NULL    |
| 18 | 0000000018  | Manaswini   | Ksheeraja  | 16  | F      | 9199999999122 | NULL    |
| 19 | 0000000019  | Shreya      | Kuppa      | 8   | F      | 9199999999187 | NULL    |
| 20 | 0000000020  | Srinidhi    | Kuppa      | 5   | F      | 919999999964  | NULL    |

## QUERY 2

```
CREATE PROCEDURE Employees @Designation varchar(15) AS  
SELECT * FROM T3_EMPLOYEE_DETAILS  
WHERE Designation = @Designation GO;  
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 |

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

QUERY 1

```
USE T3_TRAVEL GO
```

```
BEGIN TRAN
```

```
UPDATE T3_EMPLOYEE_DETAILS SET Salary =  
15000.00
```

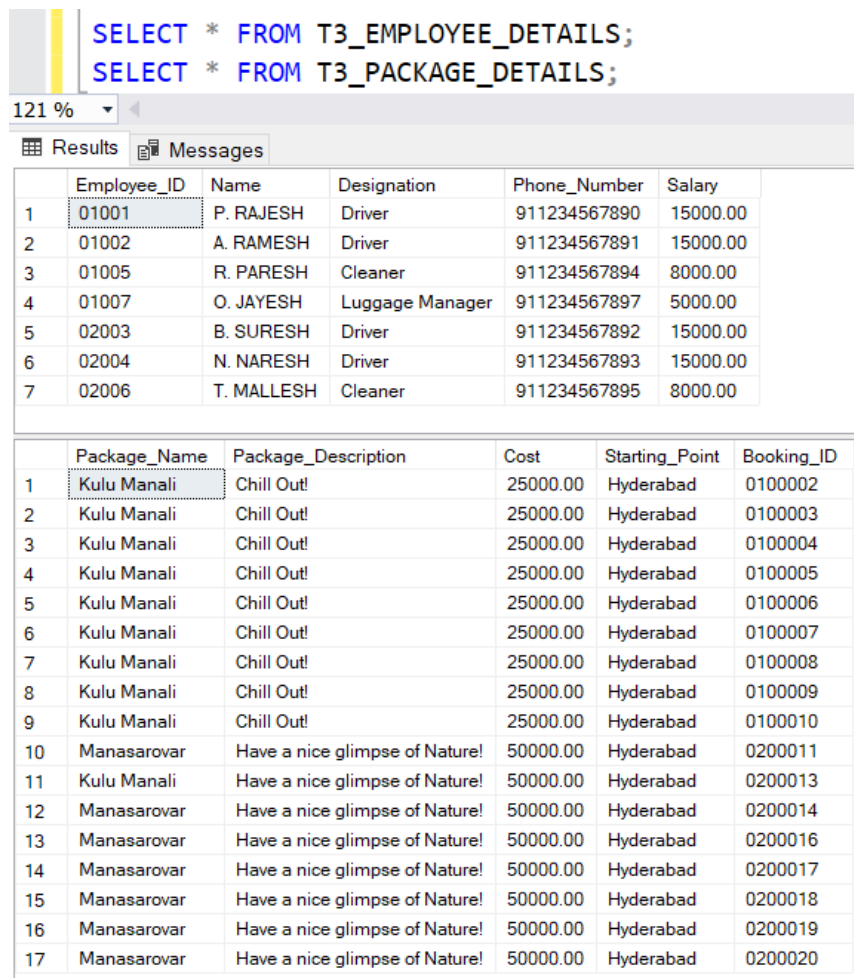
```
WHERE Designation = 'Driver';
```

```
UPDATE T3_PACKAGE_DETAILS
```

```
SET Package_Name = 'Kulu Manali' WHERE  
Booking_Id = 0200013; COMMIT TRAN
```

```
SELECT * FROM T3_EMPLOYEE_DETAILS; SELECT * FROM  
T3_PACKAGE_DETAILS;
```

Output



The screenshot shows a SQL query execution window with two tabs: 'Results' and 'Messages'. The 'Results' tab is active, displaying two tables. The first table, 'T3\_EMPLOYEE\_DETAILS', has columns: Employee\_ID, Name, Designation, Phone\_Number, and Salary. The second table, 'T3\_PACKAGE\_DETAILS', has columns: Package\_Name, Package\_Description, Cost, Starting\_Point, and Booking\_ID. The data is as follows:

| Employee_ID | Name       | Designation     | Phone_Number | Salary   |
|-------------|------------|-----------------|--------------|----------|
| 01001       | P. RAJESH  | Driver          | 911234567890 | 15000.00 |
| 01002       | A. RAMESH  | Driver          | 911234567891 | 15000.00 |
| 01005       | R. PARESH  | Cleaner         | 911234567894 | 8000.00  |
| 01007       | O. JAYESH  | Luggage Manager | 911234567897 | 5000.00  |
| 02003       | B. SURESH  | Driver          | 911234567892 | 15000.00 |
| 02004       | N. NARESH  | Driver          | 911234567893 | 15000.00 |
| 02006       | T. MALLESH | Cleaner         | 911234567895 | 8000.00  |

| Package_Name | Package_Description            | Cost     | Starting_Point | Booking_ID |
|--------------|--------------------------------|----------|----------------|------------|
| Kulu Manali  | Chill Out!                     | 25000.00 | Hyderabad      | 0100002    |
| Kulu Manali  | Chill Out!                     | 25000.00 | Hyderabad      | 0100003    |
| Kulu Manali  | Chill Out!                     | 25000.00 | Hyderabad      | 0100004    |
| Kulu Manali  | Chill Out!                     | 25000.00 | Hyderabad      | 0100005    |
| Kulu Manali  | Chill Out!                     | 25000.00 | Hyderabad      | 0100006    |
| Kulu Manali  | Chill Out!                     | 25000.00 | Hyderabad      | 0100007    |
| Kulu Manali  | Chill Out!                     | 25000.00 | Hyderabad      | 0100008    |
| Kulu Manali  | Chill Out!                     | 25000.00 | Hyderabad      | 0100009    |
| Kulu Manali  | Chill Out!                     | 25000.00 | Hyderabad      | 0100010    |
| Manasarovar  | Have a nice glimpse of Nature! | 50000.00 | Hyderabad      | 0200011    |
| Kulu Manali  | Have a nice glimpse of Nature! | 50000.00 | Hyderabad      | 0200013    |
| Manasarovar  | Have a nice glimpse of Nature! | 50000.00 | Hyderabad      | 0200014    |
| Manasarovar  | Have a nice glimpse of Nature! | 50000.00 | Hyderabad      | 0200016    |
| Manasarovar  | Have a nice glimpse of Nature! | 50000.00 | Hyderabad      | 0200017    |
| Manasarovar  | Have a nice glimpse of Nature! | 50000.00 | Hyderabad      | 0200018    |
| Manasarovar  | Have a nice glimpse of Nature! | 50000.00 | Hyderabad      | 0200019    |
| Manasarovar  | Have a nice glimpse of Nature! | 50000.00 | Hyderabad      | 0200020    |

As the transaction is atomic, the update on two separate tables will commit together or they will rollback together.

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

#### QUERY 1

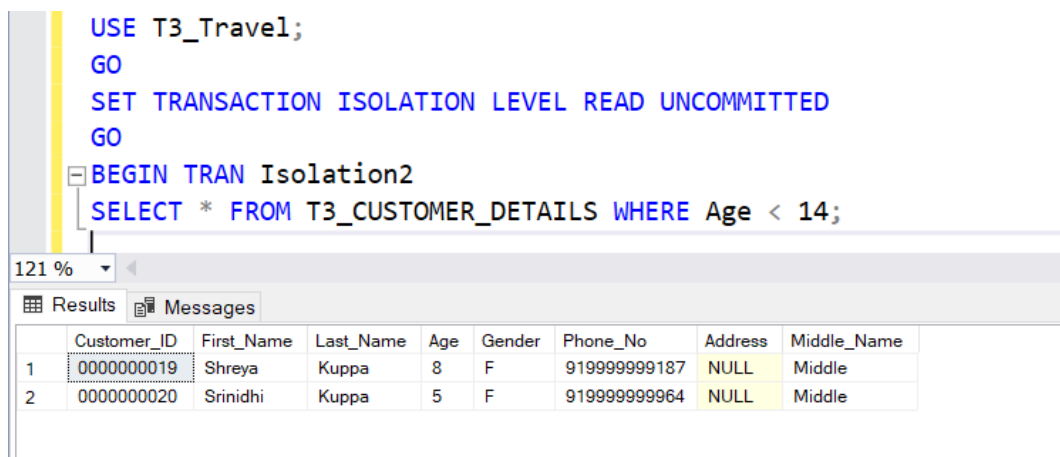
##### WINDOW 1:

```
USE T3_Travel; GO
BEGIN TRAN Isolation1
UPDATE T3_CUSTOMER_DETAILS
SET Last_Name = 'John'
WHERE Age < 14;
```

##### WINDOW 2:

```
USE T3_Travel; GO
SET TRANSACTION ISOLATION LEVEL READ
UNCOMMITTED
GO
BEGIN TRAN Isolation2
SELECT * FROM T3_CUSTOMER_DETAILS WHERE Age < 14;
```

#### OUTPUT



```
USE T3_Travel;
GO
SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED
GO
BEGIN TRAN Isolation2
SELECT * FROM T3_CUSTOMER_DETAILS WHERE Age < 14;
```

|   | Customer_ID | First_Name | Last_Name | Age | Gender | Phone_No     | Address | Middle_Name |
|---|-------------|------------|-----------|-----|--------|--------------|---------|-------------|
| 1 | 0000000019  | Shreya     | Kuppa     | 8   | F      | 919999999187 | NULL    | Middle      |
| 2 | 0000000020  | Srinidhi   | Kuppa     | 5   | F      | 919999999964 | NULL    | Middle      |

When we set the isolation level to read uncommitted, we will be able to see the Last\_Name set to 'John', called Dirty Read.