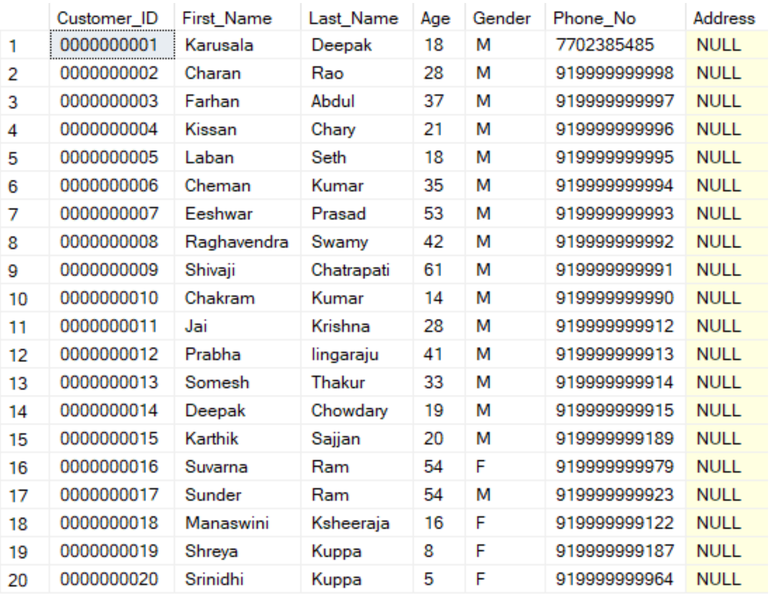
# NAME: KARUSALA DEEPAK CHOWDARY
# REGISTRATION NUMBER: 19BCS050
# DBMS LAB ASSIGNMENT – 7

1. **Write two stored Procedures relevant to your database.**

**QUERY 1**

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

**OUTPUT**

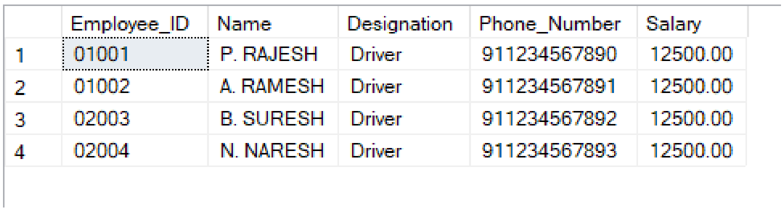


| | Customer_ID | First_Name | Last_Name | Age | Gender | Phone_No | Address |
|---|---|---|---|---|---|---|---|
| 1 | 0000000001 | Karusala | Deepak | 18 | M | 7702385485 | NULL |
| 2 | 0000000002 | Charan | Rao | 28 | M | 919999999998 | NULL |
| 3 | 0000000003 | Farhan | Abdul | 37 | M | 919999999997 | 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 | 919999999912 | NULL |
| 12 | 0000000012 | Prabha | lingaraju | 41 | M | 919999999913 | NULL |
| 13 | 0000000013 | Somesh | Thakur | 33 | M | 919999999914 | NULL |
| 14 | 0000000014 | Deepak | Chowdary | 19 | M | 919999999915 | NULL |
| 15 | 0000000015 | Karthik | Sajjan | 20 | M | 919999999189 | NULL |
| 16 | 0000000016 | Suvarna | Ram | 54 | F | 919999999979 | NULL |
| 17 | 0000000017 | Sunder | Ram | 54 | M | 919999999923 | NULL |
| 18 | 0000000018 | Manaswini | Ksheeraja | 16 | F | 919999999122 | NULL |
| 19 | 0000000019 | Shreya | Kuppa | 8 | F | 919999999187 | 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**

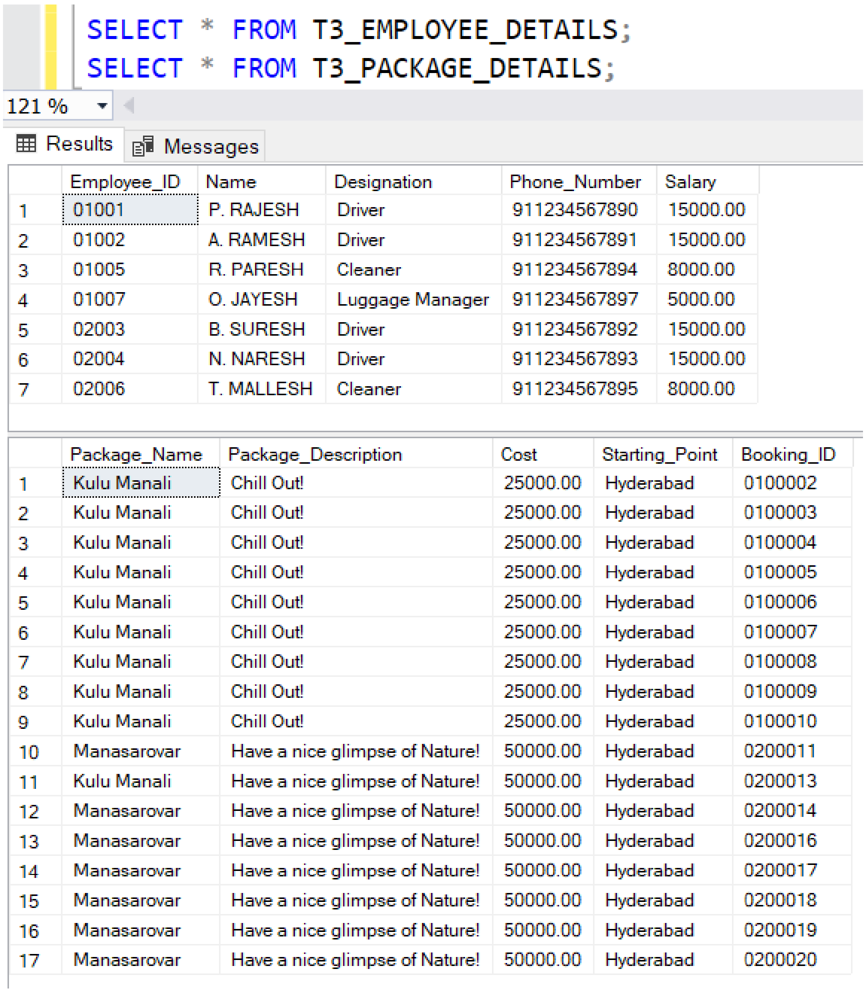
```
USE T3_TRAVEL
GO

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**



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

| | 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 |

| | Package_Name | Package_Description | Cost | Starting_Point | Booking_ID |
|---|---|---|---|---|---|
| 1 | Kulu Manali | Chill Out! | 25000.00 | Hyderabad | 0100002 |
| 2 | Kulu Manali | Chill Out! | 25000.00 | Hyderabad | 0100003 |
| 3 | Kulu Manali | Chill Out! | 25000.00 | Hyderabad | 0100004 |
| 4 | Kulu Manali | Chill Out! | 25000.00 | Hyderabad | 0100005 |
| 5 | Kulu Manali | Chill Out! | 25000.00 | Hyderabad | 0100006 |
| 6 | Kulu Manali | Chill Out! | 25000.00 | Hyderabad | 0100007 |
| 7 | Kulu Manali | Chill Out! | 25000.00 | Hyderabad | 0100008 |
| 8 | Kulu Manali | Chill Out! | 25000.00 | Hyderabad | 0100009 |
| 9 | Kulu Manali | Chill Out! | 25000.00 | Hyderabad | 0100010 |
| 10 | Manasarovar | Have a nice glimpse of Nature! | 50000.00 | Hyderabad | 0200011 |
| 11 | Kulu Manali | Have a nice glimpse of Nature! | 50000.00 | Hyderabad | 0200013 |
| 12 | Manasarovar | Have a nice glimpse of Nature! | 50000.00 | Hyderabad | 0200014 |
| 13 | Manasarovar | Have a nice glimpse of Nature! | 50000.00 | Hyderabad | 0200016 |
| 14 | Manasarovar | Have a nice glimpse of Nature! | 50000.00 | Hyderabad | 0200017 |
| 15 | Manasarovar | Have a nice glimpse of Nature! | 50000.00 | Hyderabad | 0200018 |
| 16 | Manasarovar | Have a nice glimpse of Nature! | 50000.00 | Hyderabad | 0200019 |
| 17 | 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**

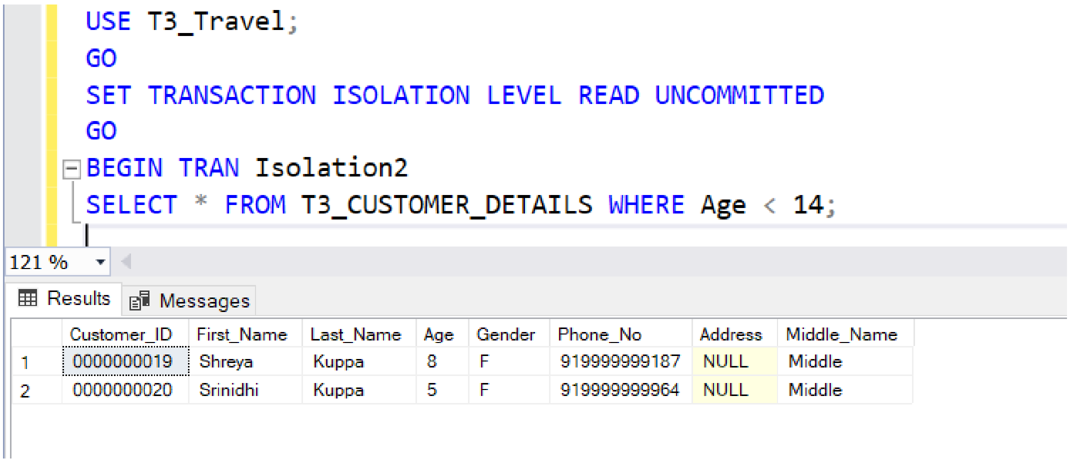
*WINDOW 1:*

```
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.