## **DBMS LAB ASSIGNMENT-7**

## S Venkata Ramana

## 19bcs096 T12

1)Write two stored Procedures relevant to your database.

## Query1:

CREATE PROCEDURE Regional\_phn\_no
AS
SELECT \* FROM T12\_studentinfo WHERE ph\_no LIKE '[9]%'
GO

EXEC Regional\_phn\_no;

#### **OUTPUT:**

	student_id	first_name	last_name	email_id	ph_no	study_year	DOB	age
1	19BCS131	HRITHIK	ROSHAN	19bcs131@iiitdwd.ac.in	9876543210	2	2001-12-02	20
2	19BCS132	JOHN	ST	19bcs132@iiitdwd.ac.in	9987654033	2	2002-06-16	19
3	19BCS133	AKSHAY	KHANNA	19bcs133@iiitdwd.ac.in	9887604321	2	2001-03-03	20
4	19BCS134	SHAHRUKH	KHAN	19bcs134@iiitdwd.ac.in	9054321998	2	2002-11-01	19
5	19BCS135	SHILPA	SHETTY	19bcs135@iiitdwd.ac.in	9908766548	2	2002-06-16	19
6	19BCS136	RANI	MUKHERJEE	19bcs136@iiitdwd.ac.in	9776055943	2	2001-08-17	20
7	19BCS139	KRITHI	SHETTY	19bcs139@iiitdwd.ac.in	9077654892	2	2001-10-08	20
8	19BCS140	ANUSHKA	SHARMA	19bcs140@iiitdwd.ac.in	9665894362	2	2001-10-08	20
9	19BCS141	ANUSHKA	SHETTY	19bcs141@iiitdwd.ac.in	9887065432	2	2002-10-06	19
10	19BCS142	SREERAM	KESHVA	19bcs142@iiitdwd.ac.in	9507763210	2	2001-11-08	20
11	19BCS144	COUSHIK	SAI	19bcs144@iiitdwd.ac.in	9440996234	2	2001-09-19	20
12	19BCS145	KRITHIKA	KUMAR	19bcs145@iiitdwd.ac.in	9079054670	2	2002-10-27	19
13	19BCS147	SWAROOP	GHATTAMANENI	19bcs147@iiitdwd.ac.in	9008796654	2	2001-02-23	20
14	19BCS148	NIKHIL	KUMAR	19bcs148@iiitdwd.ac.in	9778054398	2	2001-11-12	20
15	19BCS151	SURIYA	KHILLADI	19bcs151@iiitdwd.ac.in	9075428944	2	2002-07-25	19
16	19BCS180	PRATHEEKA	SINGH	19bcs180@iiitdwd.ac.in	9024538589	3	2002-03-21	19

## Query2:

CREATE PROCEDURE avg\_fee\_paid\_by\_region
AS
SELECT address, AVG(fee\_paid) AS avg\_fee\_paid FROM T12\_parentinfo
GROUP BY address ORDER BY avg\_fee\_paid
GO
EXEC avg\_fee\_paid\_by\_region;

#### **OUTPUT:**

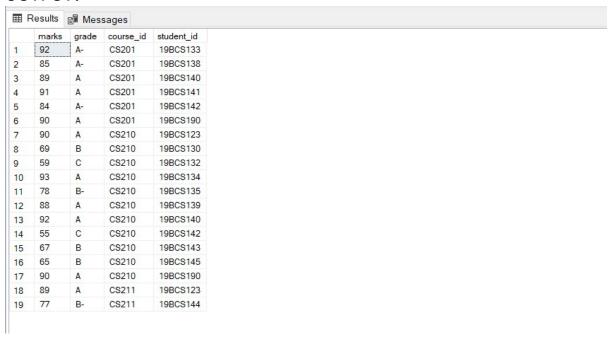


# 2) Write a transaction to illustrate atomicity (related to your database).

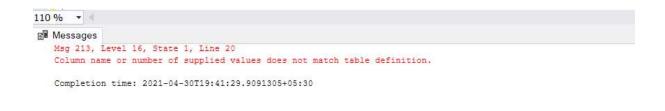
### Query:

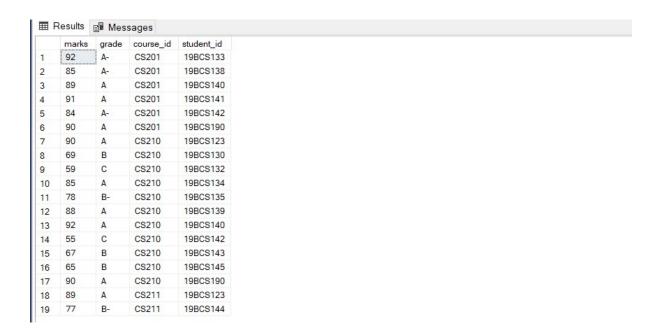
BEGIN TRAN Transaction\_grades UPDATE T12\_grades SET marks='92' where course\_id='cs201' and student\_id='19BCS133' INSERT INTO T12\_grades VALUES ('90','A','CS201','19BCS190') COMMIT SELECT \* FROM T12\_grades

#### **OUTPUT:**



Now, let us we will insert wrong information in the T12\_grades table to fail the insertion deliberately.





Here, we can clearly see that the transaction got rolled back as error have been occurred in insert operation. And thus, update have not been worked due to atomic property and the previous values of the table are displayed.

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

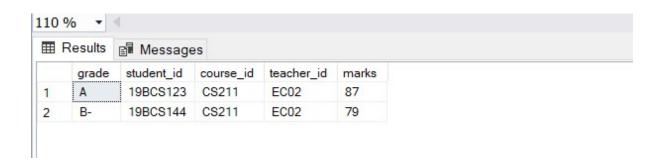
## Query:

USE school; GO BEGIN TRAN Trans\_Isolation UPDATE T12\_course\_staff SET teacher\_id = 'ECO2' WHERE course\_id = 'cs211'



USE school; GO SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED GO BEGIN TRAN Trans\_Isolation1 SELECT \* FROM T12\_course\_staff WHERE course\_id='cs211'

#### **OUTPUT:**



• When we set the isolation level to read uncommitted, we will be able to see the teacher\_id set to 'ECO2', called Dirty Read.