DBMS Lab Assignment 7 <u>Team 4</u>

1) Write two stored Procedures relevant to your database.

Using no parameters:

CREATE PROCEDURE ResearchProjects

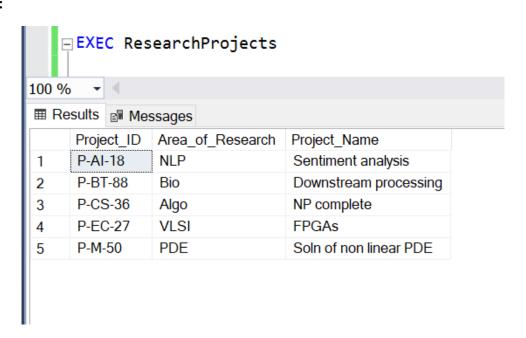
AS

SELECT * FROM T4_Research_Projects

GO;

EXEC ResearchProjects;

Output:



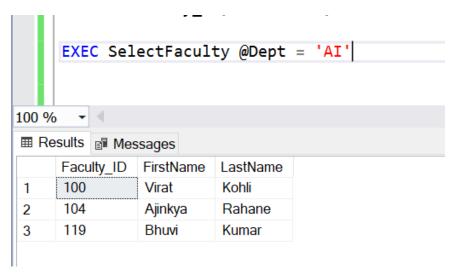
Using one parameter

CREATE PROCEDURE SelectFaculty @Dept nvarchar(10)

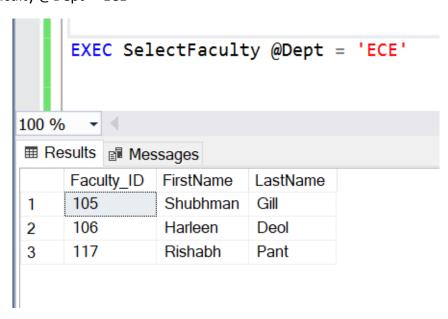
AS

SELECT Faculty_ID, FirstName, LastName FROM T4_Faculty WHERE Department_Name = @Dept;

EXEC SelectFaculty @Dept = 'AI'



EXEC SelectFaculty @Dept = 'ECE'



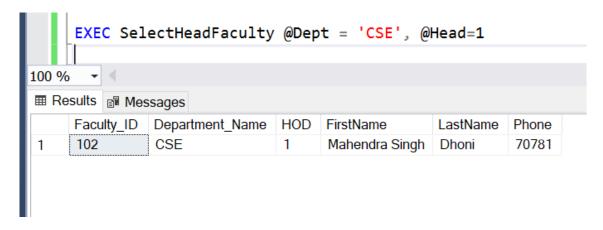
Using two (multiple) parameters

CREATE PROCEDURE SelectHeadFaculty @Dept nvarchar(10), @Head bit

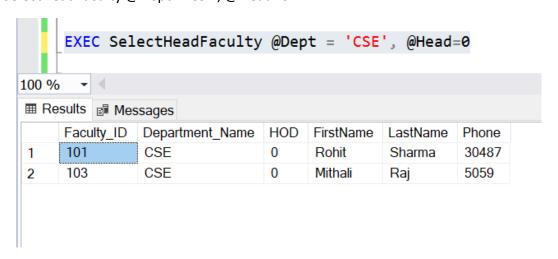
AS

SELECT * FROM T4_Faculty WHERE Department_Name = @Dept AND HOD = @Head;

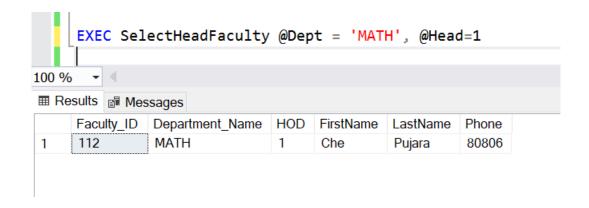
EXEC SelectHeadFaculty @Dept = 'CSE', @Head=1



EXEC SelectHeadFaculty @Dept = 'CSE', @Head=0



EXEC SelectHeadFaculty @Dept = 'MATH', @Head=1



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

USE University

GO

BEGIN TRANSACTION

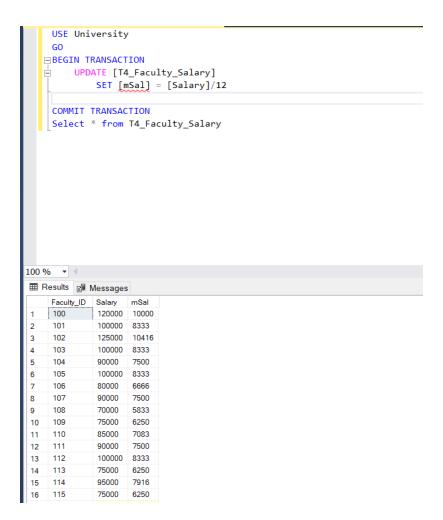
UPDATE [T4_Faculty_Salary]

SET [mSal] = [Salary]/12

COMMIT TRANSACTION

Select * from T4_Faculty_Salary

OUTPUT:



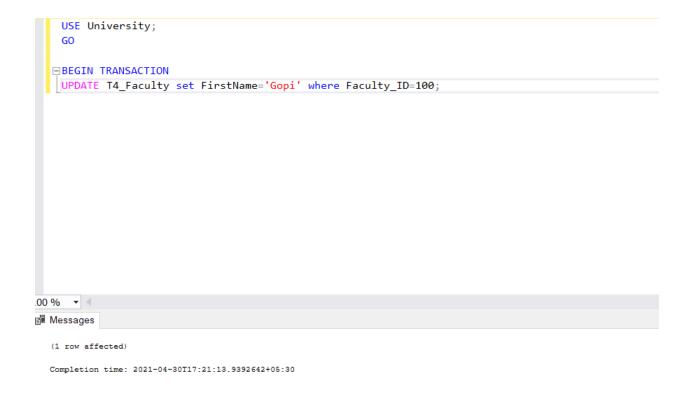
3)Write a transaction to illustrate isolation level. It can be on commit or uncommit read (related to your database)

USE University;

GO

BEGIN TRANSACTION

UPDATE T4_Faculty set FirstName='Gopi' where Faculty_ID=100;



USE University

GO

SET TRANSACTION ISOLATION LEVEL READ COMMITTED

GO

BEGIN TRANSACTION

SELECT * FROM T4_Faculty

USE University
GO

SET TRANSACTION ISOLATION LEVEL READ COMMITTED
GO

BEGIN TRANSACTION

SELECT * FROM T4_Faculty

TOO %

Results Messages

Faculty_ID Department_Name HOD FirstName LastName Phone
1 100 A 1 Gopi Kohli 51188
2 101 CSE 0 Robit Shama 30487

	Faculty_ID	Department_Name	HOD	FirstName	LastName	Phone
1	100	Al	1	Gopi	Kohli	51188
2	101	CSE	0	Rohit	Sharma	30487
3	102	CSE	1	Mahendra Singh	Dhoni	70781
4	103	CSE	0	Mithali	Raj	5059
5	104	Al	0	Ajinkya	Rahane	60688
6	105	ECE	1	Shubhman	Gill	70895
7	106	ECE	0	Harleen	Deol	66666
8	107	BT	1	Jasprit	Bumrah	99999
9	108	BT	0	Ekta	Bisht	54545
10	109	AERO	0	Hardik	Pandya	23232
11	110	AERO	1	Ravi	Ashwin	11116
12	111	ME	1	Ravindra	Jadeja	33890
13	112	MATH	1	Che	Pujara	80806
14	113	ME	0	Kuldeep	Yadav	93947
15	114	CVE	1	Smriti	Mandhana	11112
16	115	CVE	0	Md	Siraj	99998
17	116	CVE	0	Yuz	Chahal	11117

Query executed successfully.