DBMS ASSIGNMENT 6

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1. Write two stored Procedures relevant to your database.
   Query:

```
CREATE PROCEDURE Names_starting_with_H
AS
SELECT * FROM t1_patients WHERE pat_name LIKE 'H%'
GO
EXEC Names_starting_with_H;
```

Output:

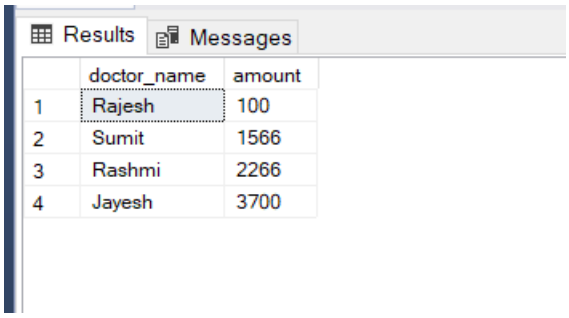
Results | Messages

	pat_id	pat_name	pat_gender	pat_phone	pat_address	doc_id
1	8	Heni	Female	9809988989	Ahmedabad	2
2	10	Hardik	Male	9809988989	Indore	2
3	20	Hema	Female	9809988989	Delhi	2
4	22	Harsh	Male	9809988989	Surat	2
5	32	Himani	Female	8123988989	Valsad	3
6	40	Helly	Female	9809988989	Bombay	2
7	78	Harry	Male	9809988989	Bangalore	2

Query:

```
CREATE PROCEDURE doctor_avg_amount
AS
SELECT doctor_name,AVG(amount) AS amount FROM t1_bill
GROUP BY doctor_name ORDER BY amount
GO
EXEC doctor_avg_amount;
```

Output:



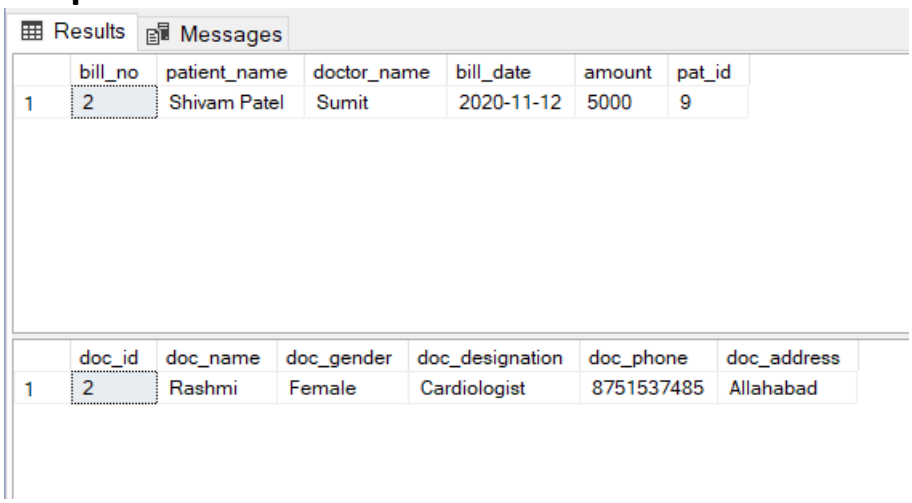
	doctor_name	amount
1	Rajesh	100
2	Sumit	1566
3	Rashmi	2266
4	Jayesh	3700

2. Write a transaction to illustrate atomicity.
   Query:

```
BEGIN TRAN Transaction_Update
UPDATE t1_bill SET amount = 5000 WHERE bill_no = 2
UPDATE t1_doctor SET doc_address = 'Allahabad' WHERE doc_id = 2
COMMIT

SELECT * FROM t1_bill WHERE bill_no = 2;
SELECT * FROM t1_doctor WHERE doc_id = 2;
```

Output:



	bill_no	patient_name	doctor_name	bill_date	amount	pat_id
1	2	Shivam Patel	Sumit	2020-11-12	5000	9

	doc_id	doc_name	doc_gender	doc_designation	doc_phone	doc_address
1	2	Rashmi	Female	Cardiologist	8751537485	Allahabad

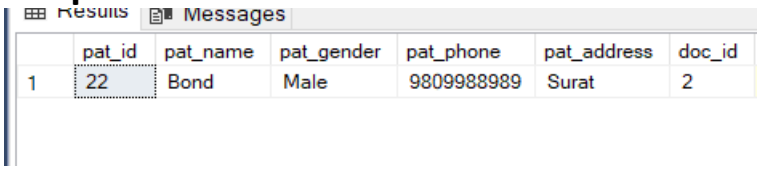
3. Write a transaction to illustrate isolation level. It can be on commit or uncommit read
   Query:

```
USE Hospital
```

```
GO
BEGIN TRAN Isolation
UPDATE t1_patients
SET pat_name = 'Bond'
WHERE pat_id = 22

SELECT * FROM t1_patients WHERE pat_id = 22;
```

Output:



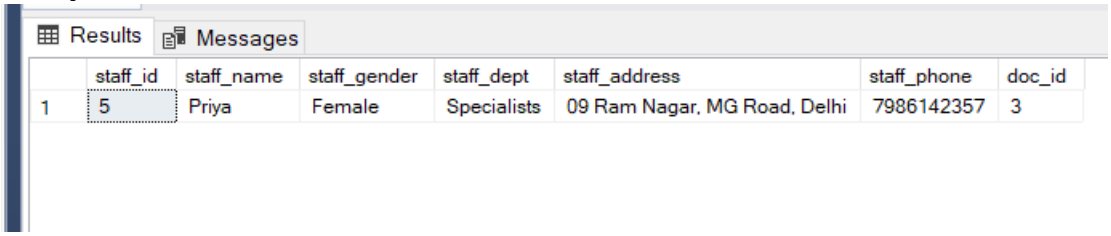
Results | Messages

	pat_id	pat_name	pat_gender	pat_phone	pat_address	doc_id
1	22	Bond	Male	9809988989	Surat	2

Query:

```
USE Hospital;
GO
SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED
GO
BEGIN TRAN Isolation1
SELECT * FROM t1_staff
WHERE staff_id = 5
```

Output:



Results | Messages

	staff_id	staff_name	staff_gender	staff_dept	staff_address	staff_phone	doc_id
1	5	Priya	Female	Specialists	09 Ram Nagar, MG Road, Delhi	7986142357	3