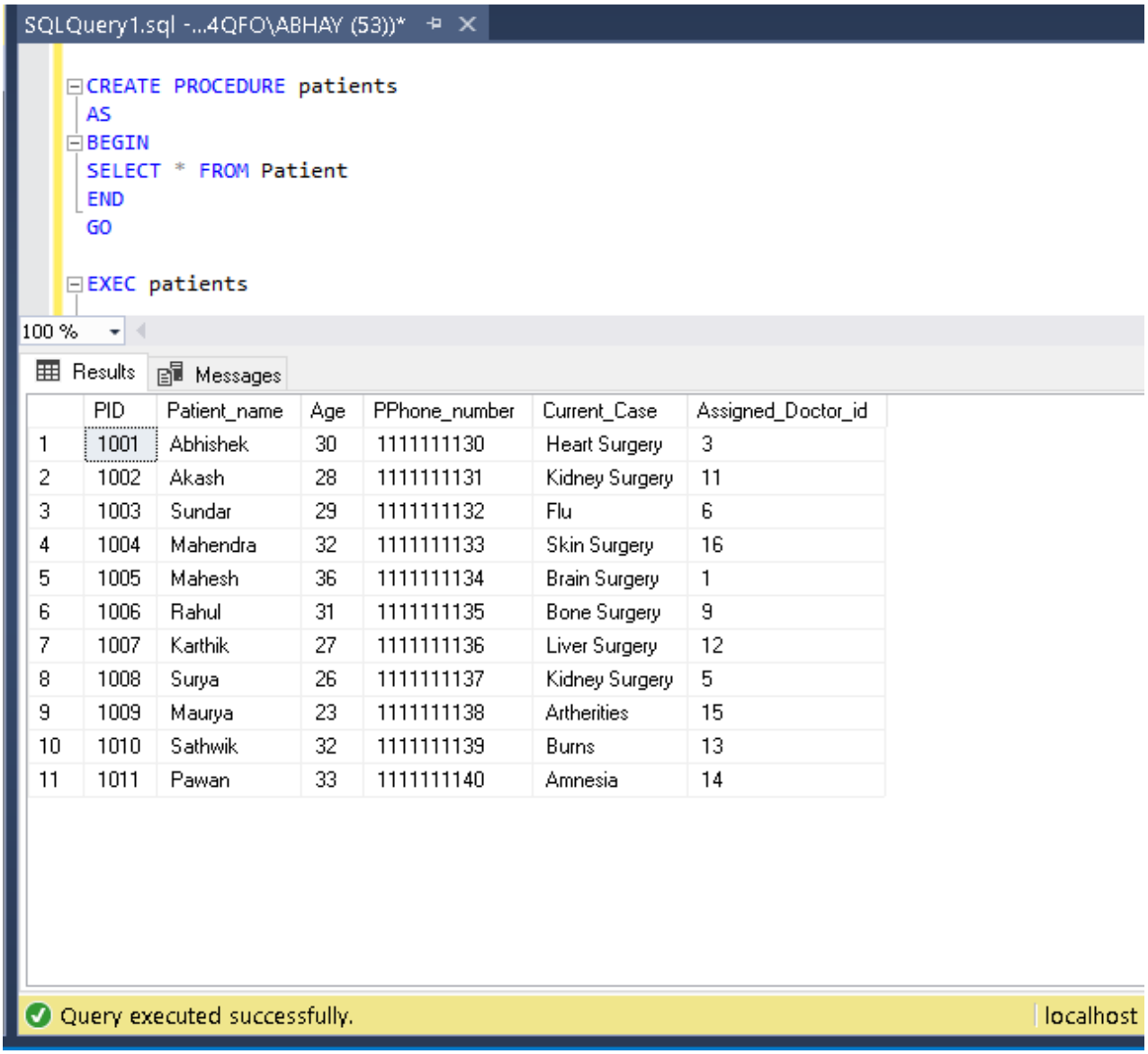
Abhay.N.Rao

19BCS002

DBMS-LAB Assignment 7

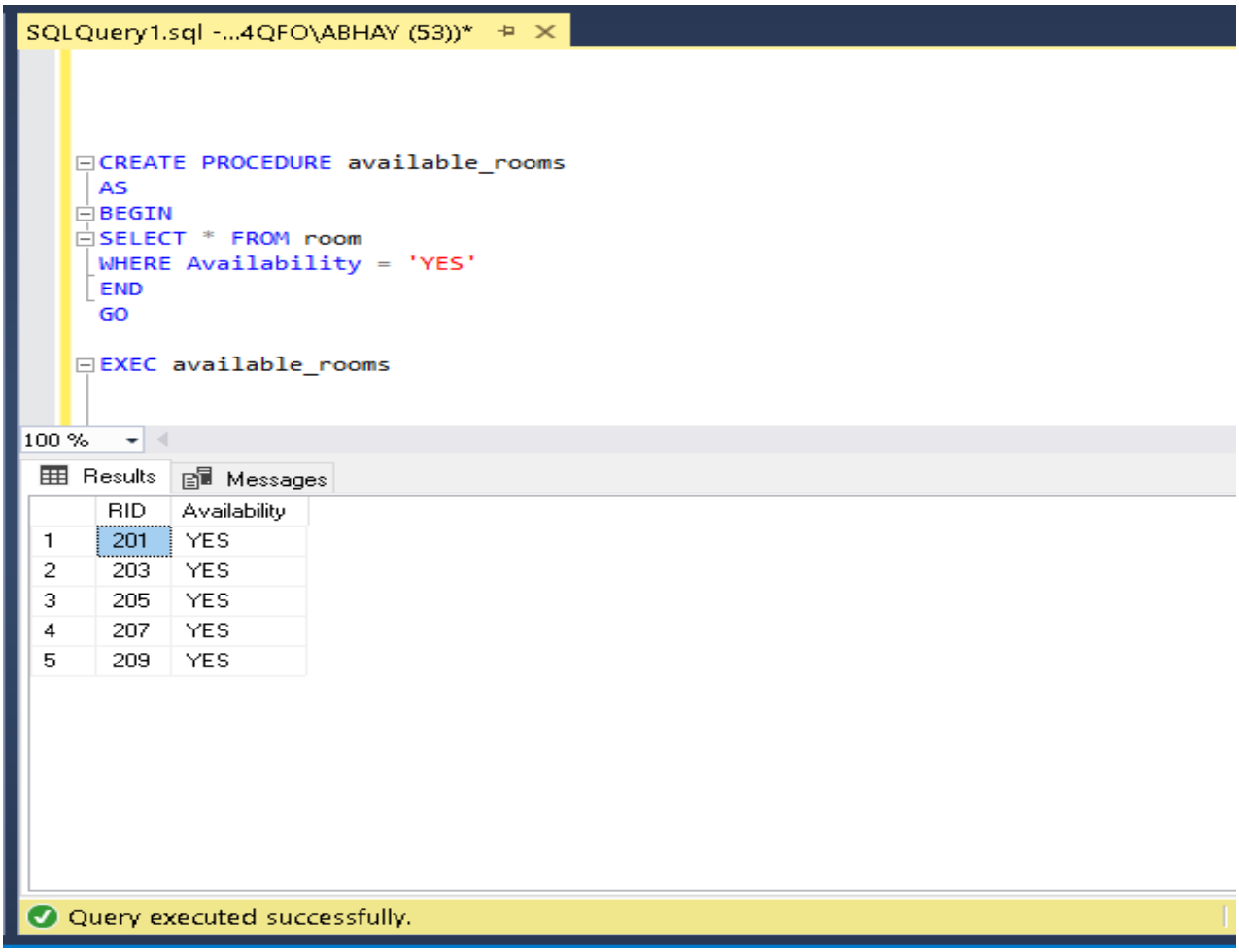
1. Write two stored Procedures relevant to your database.

a)
```
CREATE PROCEDURE patients
  AS
  BEGIN
  SELECT * FROM Patient
  END
  GO
  EXEC patients
```



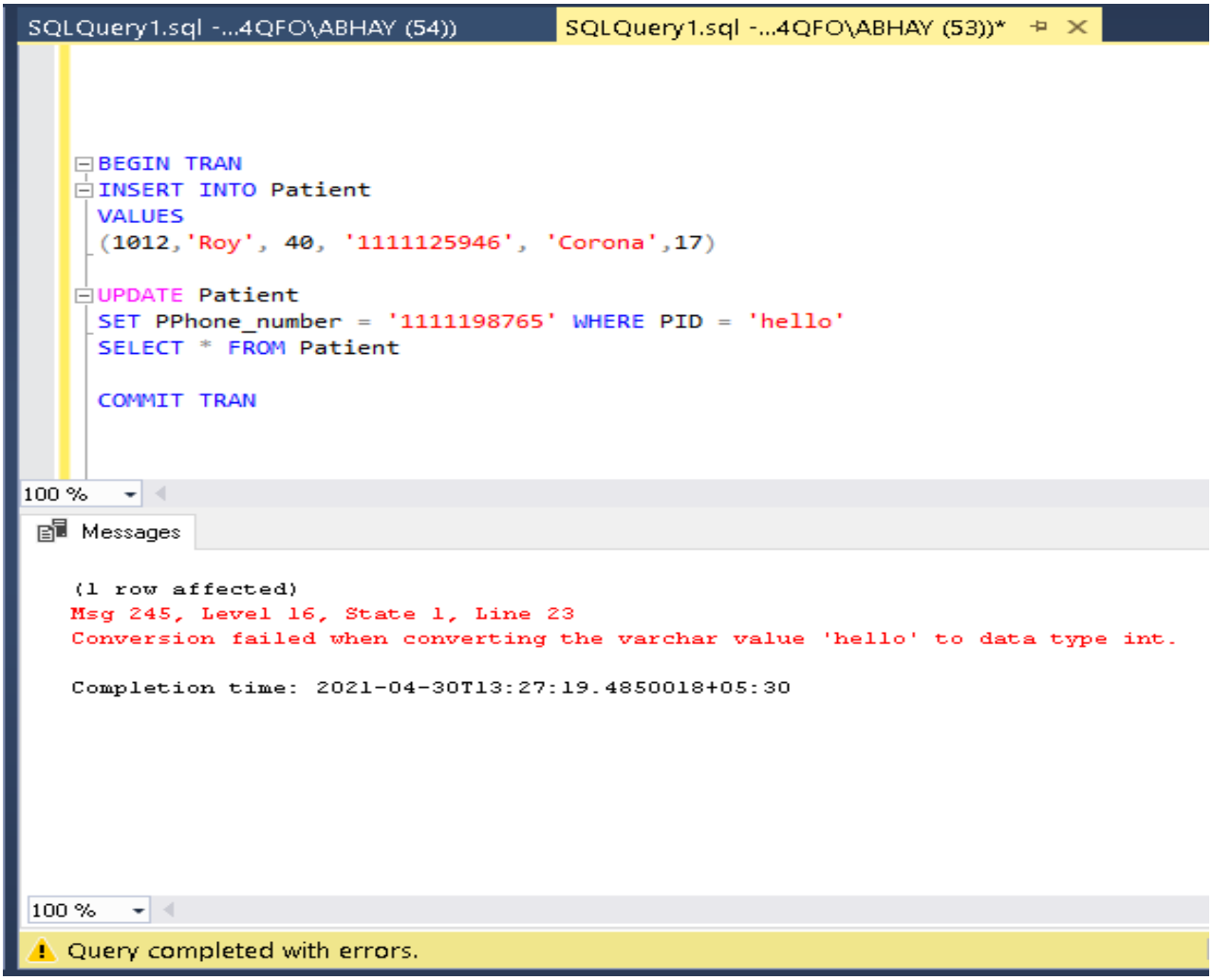
	PID	Patient_name	Age	PPhone_number	Current_Case	Assigned_Doctor_id
1	1001	Abhishek	30	1111111130	Heart Surgery	3
2	1002	Akash	28	1111111131	Kidney Surgery	11
3	1003	Sundar	29	1111111132	Flu	6
4	1004	Mahendra	32	1111111133	Skin Surgery	16
5	1005	Mahesh	36	1111111134	Brain Surgery	1
6	1006	Rahul	31	1111111135	Bone Surgery	9
7	1007	Karthik	27	1111111136	Liver Surgery	12
8	1008	Surya	26	1111111137	Kidney Surgery	5
9	1009	Maurya	23	1111111138	Artherities	15
10	1010	Sathwik	32	1111111139	Burns	13
11	1011	Pawan	33	1111111140	Amnesia	14

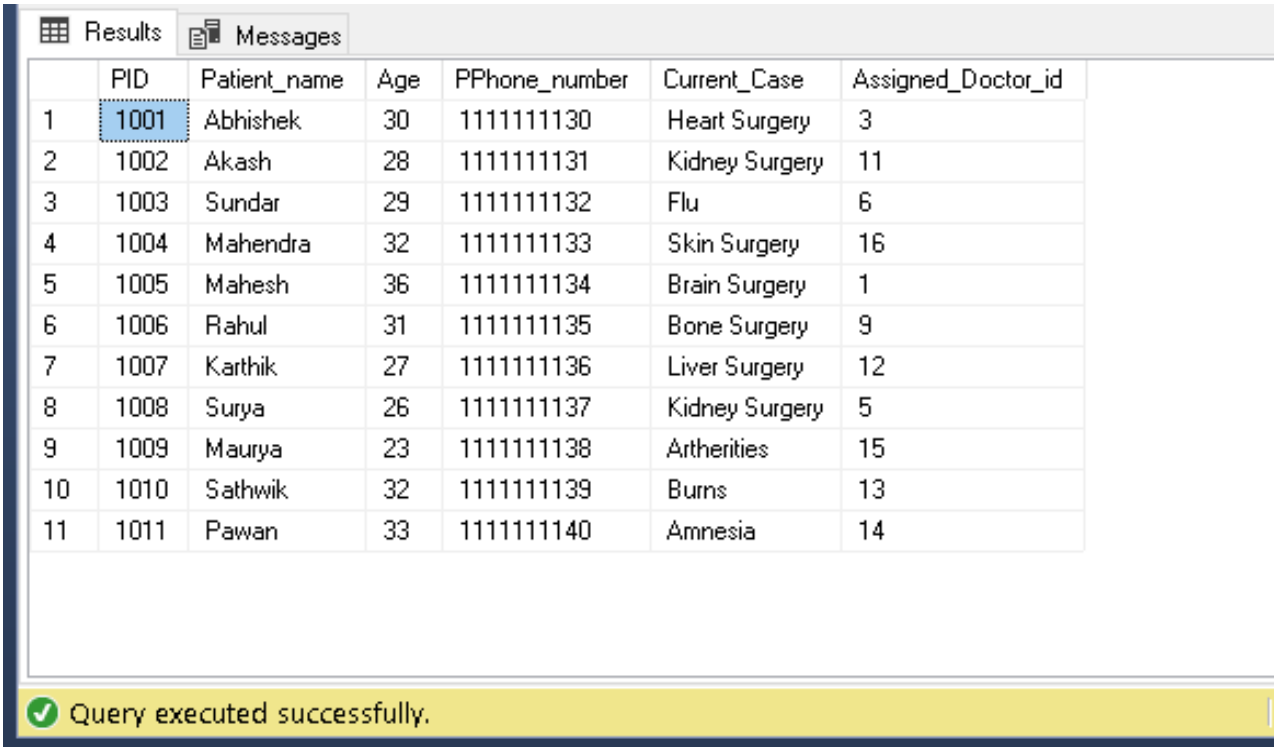
b)
```
CREATE PROCEDURE available_rooms
  AS
  BEGIN
  SELECT * FROM room
  WHERE Availability = 'YES'
  END
  GO
  EXEC available_rooms
```



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

```
BEGIN TRAN
INSERT INTO Patient
VALUES
(1012,'Roy', 40, '1111125946', 'Corona',17)
UPDATE Patient
SET PPhone_number = '1111198765' WHERE PID = 'hello'
SELECT * FROM Patient
COMMIT TRAN
```





Results | Messages

	PID	Patient_name	Age	PPhone_number	Current_Case	Assigned_Doctor_id
1	1001	Abhishek	30	1111111130	Heart Surgery	3
2	1002	Akash	28	1111111131	Kidney Surgery	11
3	1003	Sundar	29	1111111132	Flu	6
4	1004	Mahendra	32	1111111133	Skin Surgery	16
5	1005	Mahesh	36	1111111134	Brain Surgery	1
6	1006	Rahul	31	1111111135	Bone Surgery	9
7	1007	Karthik	27	1111111136	Liver Surgery	12
8	1008	Surya	26	1111111137	Kidney Surgery	5
9	1009	Maurya	23	1111111138	Artherities	15
10	1010	Sathwik	32	1111111139	Burns	13
11	1011	Pawan	33	1111111140	Amnesia	14

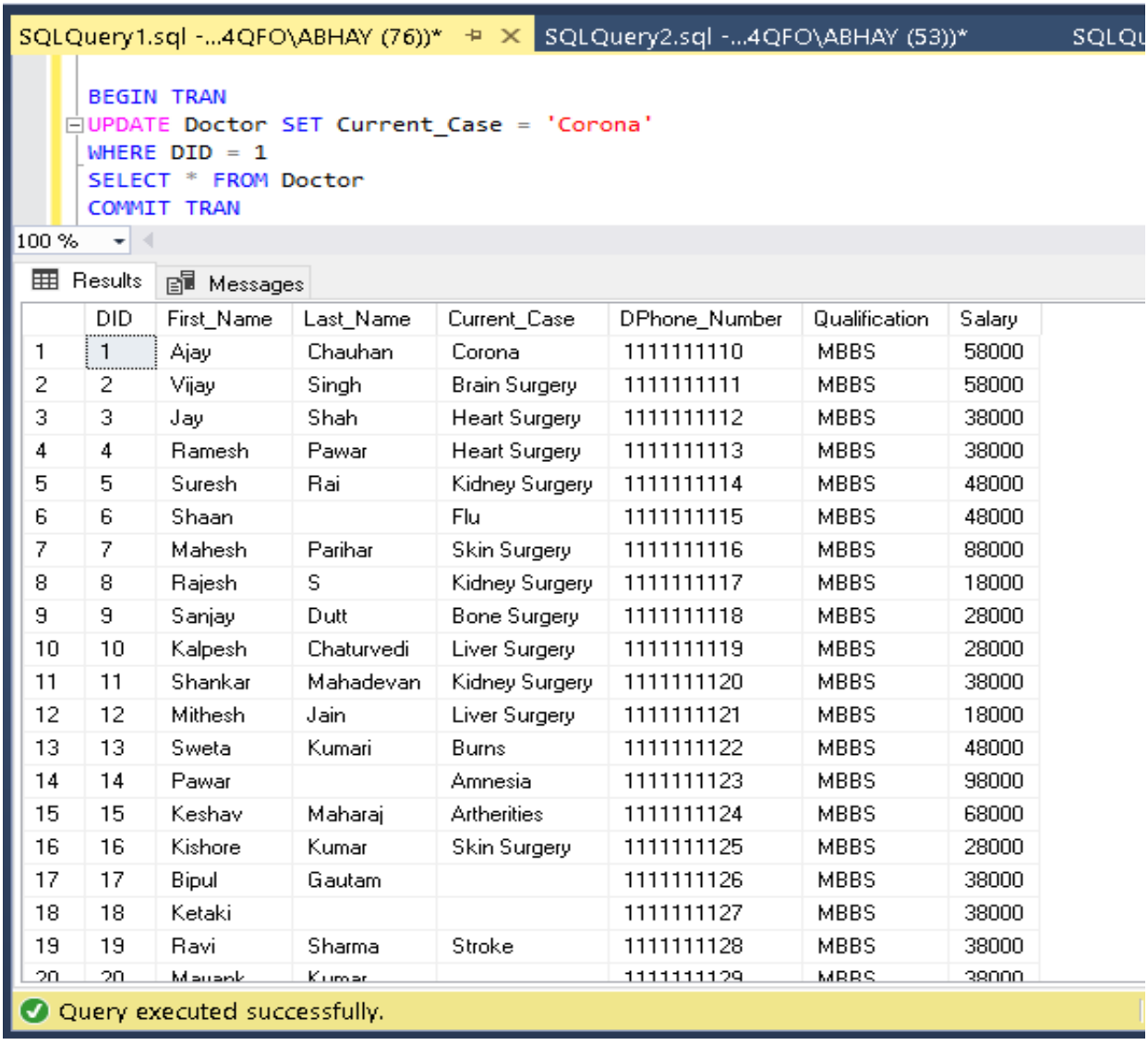
Query executed successfully.

As the updation doesn’t occur because of wrong input data type, the insertion doesn’t occur too because of atomicity.

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

Window-1:

```
BEGIN TRAN
UPDATE Doctor
SET Current_Case = 'Corona'
WHERE DID = 1
SELECT * FROM Doctor
COMMIT TRAN
```



	DID	First_Name	Last_Name	Current_Case	DPhone_Number	Qualification	Salary
1	1	Ajay	Chauhan	Corona	1111111110	MBBS	58000
2	2	Vijay	Singh	Brain Surgery	1111111111	MBBS	58000
3	3	Jay	Shah	Heart Surgery	1111111112	MBBS	38000
4	4	Ramesh	Pawar	Heart Surgery	1111111113	MBBS	38000
5	5	Suresh	Rai	Kidney Surgery	1111111114	MBBS	48000
6	6	Shaan		Flu	1111111115	MBBS	48000
7	7	Mahesh	Parihar	Skin Surgery	1111111116	MBBS	88000
8	8	Rajesh	S	Kidney Surgery	1111111117	MBBS	18000
9	9	Sanjay	Dutt	Bone Surgery	1111111118	MBBS	28000
10	10	Kalpesh	Chaturvedi	Liver Surgery	1111111119	MBBS	28000
11	11	Shankar	Mahadevan	Kidney Surgery	1111111120	MBBS	38000
12	12	Mithesh	Jain	Liver Surgery	1111111121	MBBS	18000
13	13	Sweta	Kumari	Burns	1111111122	MBBS	48000
14	14	Pawar		Amnesia	1111111123	MBBS	98000
15	15	Keshav	Maharaj	Artherities	1111111124	MBBS	68000
16	16	Kishore	Kumar	Skin Surgery	1111111125	MBBS	28000
17	17	Bipul	Gautam		1111111126	MBBS	38000
18	18	Ketaki			1111111127	MBBS	38000
19	19	Ravi	Sharma	Stroke	1111111128	MBBS	38000
20	20	Mayank	Kumar		1111111129	MBBS	38000

Window-2:

```
SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED
BEGIN TRAN
Select * from Doctor
WHERE DID = 1
```