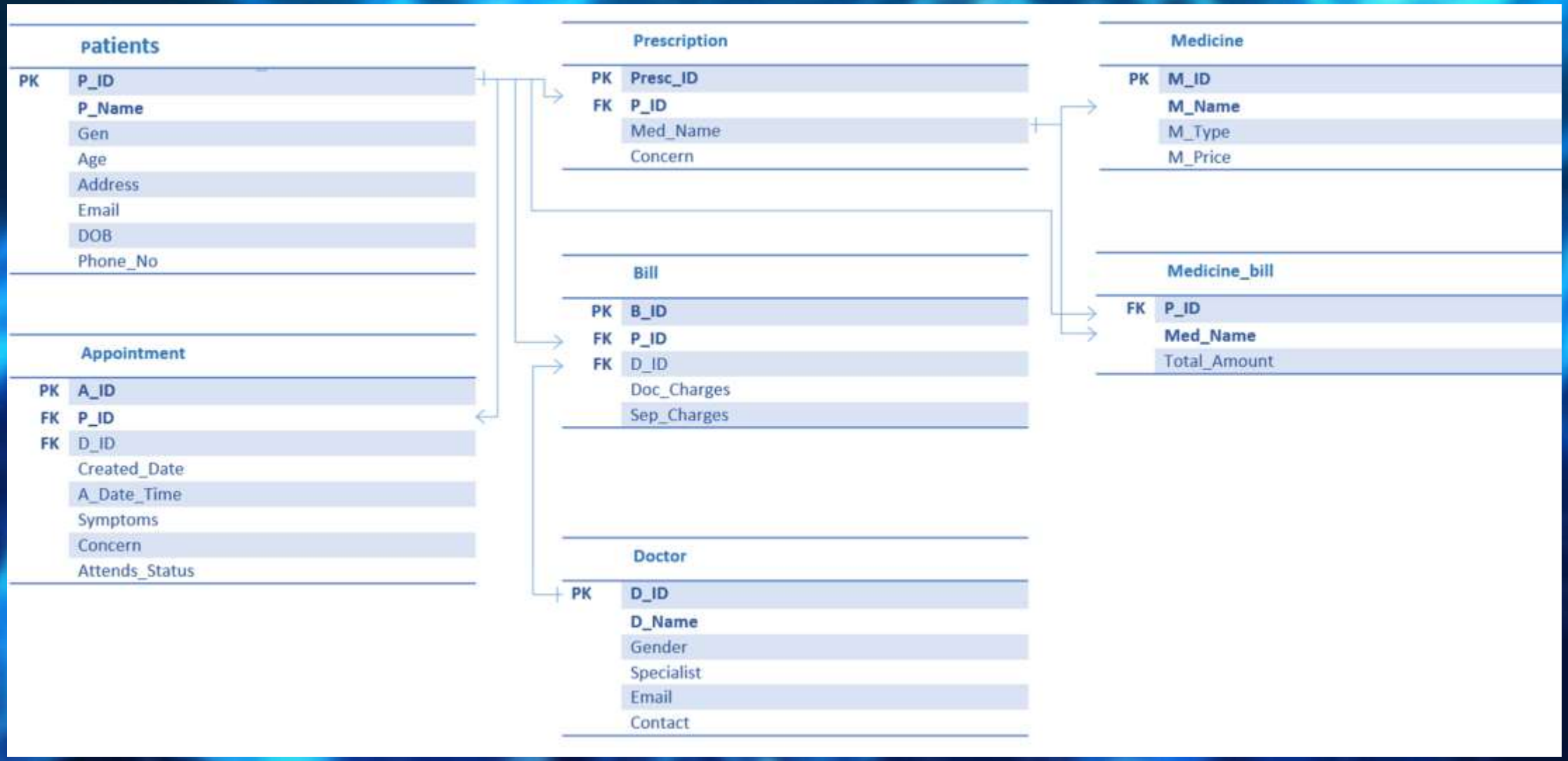
HOSPITAL
MANAGEMENT
SYSTEM

INTRODUCTION

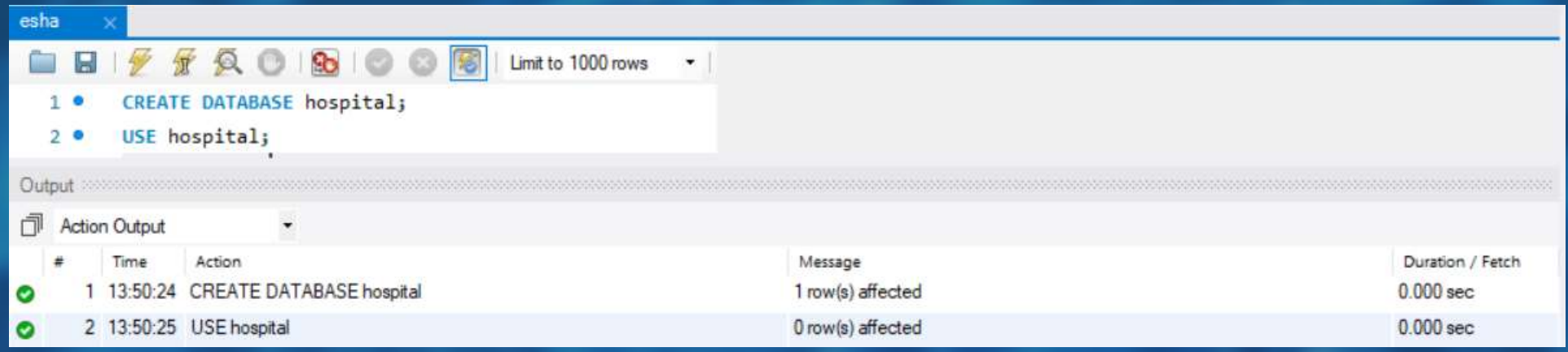
Hospital Management System handles activities of major department like patient management, doctor department, billing department, medical department, etc. It is very difficult for the hospital to maintain its day-to-day activities and records manually. This is why a database is required to keep records of all type of activities of a hospital. It will help to connect all the department on a single platform and bring in better co-ordination among the different departments.

ENTITY RELATIONSHIP DIAGRAM



DATA DEFINITION LANGUAGE (DDL)

- CREATE A DATABASE AND USE IT



➢Create required tables

```
4  CREATE TABLE patients(
5  P_ID INT PRIMARY KEY,
6  P_Name VARCHAR(30),
7  Gen VARCHAR(10),
8  Age FLOAT,
9  Address VARCHAR(100),
10 Email VARCHAR(30) DEFAULT('xyz@gmail.com'),
11 DOB DATE,
12 Phone_No BIGINT);
13
14 CREATE TABLE doctor(
15 D_ID INT PRIMARY KEY,
16 D_Name VARCHAR(30),
17 Gender VARCHAR(10),
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
289	20:22:11	CREATE TABLE patients(P_ID INT PRIMARY KEY, P_Name VARCH...	0 row(s) affected	0.000 sec
290	20:22:12	CREATE TABLE doctor(D_ID INT PRIMARY KEY, D_Name VARCHA...	0 row(s) affected	0.015 sec
291	20:22:14	CREATE TABLE appointment(A_ID INT PRIMARY KEY, P_ID INT, D_...	0 row(s) affected	0.016 sec
292	20:22:16	CREATE TABLE prescription(Presc_ID INT PRIMARY KEY, P_ID INT,...	0 row(s) affected	0.016 sec
293	20:22:23	CREATE TABLE medicine(M_ID INT PRIMARY KEY, M_Name VARC...	0 row(s) affected	0.000 sec
294	20:22:24	CREATE TABLE medicineb(P_ID INT, Med_Name VARCHAR(100), T...	0 row(s) affected	0.015 sec
295	20:22:26	CREATE TABLE bill(B_ID INT PRIMARY KEY, P_ID INT, D_ID INT, D...	0 row(s) affected	0.016 sec
296	20:22:27	CREATE TABLE reports(ID INT PRIMARY KEY, Name VARCHAR(100...	0 row(s) affected	0.016 sec
297	20:22:48	ALTER TABLE patients MODIFY age INT	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.032 sec
298	20:22:49	ALTER TABLE bill ADD Total_Charges INT	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
299	20:22:50	ALTER TABLE reports DROP COLUMN Type	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec

➢ Alter the value of a particular table according to the condition

- Modify data type using ALTER –
  Modify the data type of age to INT

```
68 •   ALTER TABLE patients
69     MODIFY age INT;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
297	20:22:48	ALTER TABLE patients MODIFY age INT	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.032 sec

- ADD COLUMN USING ALTER –
  Add column Total_bill to bill table with INT datatype

```
71 •   ALTER TABLE bill
72     ADD Total_Charges INT;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
298	20:22:49	ALTER TABLE bill ADD Total_Charges INT	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec

- DROP COLUMN USING ALTER –

DROP COLUMN 'Type' FROM REPORTS TABLE

```
74 •   ALTER TABLE reports
75     DROP COLUMN Type;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
299	20:22:50	ALTER TABLE reports DROP COLUMN Type	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec

- RENAME COLUMN USING ALTER–

RENAME COLUMN NAME FROM GEN TO GENDER FROM PATIENT TABLE

```
77 •   ALTER TABLE patients
78     CHANGE COLUMN Gen Gender VARCHAR(10);
```

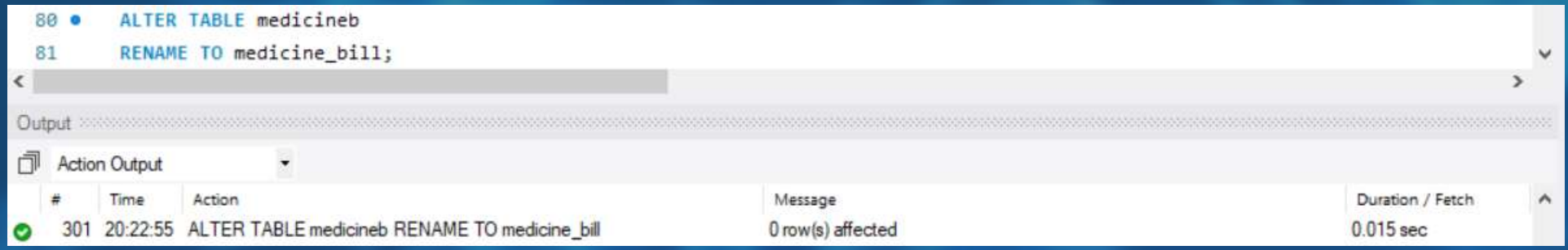
Output

Action Output

#	Time	Action	Message	Duration / Fetch
300	20:22:52	ALTER TABLE patients CHANGE COLUMN Gen Gender VARCHAR(10)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec

- RENAME TABLE NAME USING ALTER –

RENAME TABLE NAME FROM MEDICINEB TO MEDICINE_BILL



➢TRUNCATE TABLE

Truncate table named reports

```
83 •    TRUNCATE TABLE reports;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
302	20:22:56	TRUNCATE TABLE reports	0 row(s) affected	0.016 sec

➢DROP TABLE

Delete the table named reports

```
85 •    DROP TABLE reports;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
303	20:22:56	DROP TABLE reports	0 row(s) affected	0.000 sec

DATA MODIFICTION LANGUAGE (DML)

- INSERT THE VALUES TO THE EXISTING TABLES

```
87 •  INSERT INTO patients VALUES
88    (101,'Kshitija Jadhav','Female',20,'271, S Bhagat Singh Rd, Nr G P O, Fort','kshitijajadhav@gmail.com','2003-10-10',9876543
89    (102,'Amar Navale','Male',8,'201, Shree Sai Dham, 90 Feet Road, Jhulelal Chowk, Ghatkoper (east)','amarnavale@gmail.com','2
90    (103,'Sai Ahire','Male',17,'S V Road, Malad Shopping Centr Opp Bank Of Baroda, Goregaon (west)','saiahire@yahoo.com','2006-
91    (104,'Sakshi Jadhav','Female',11,'1/1a, Shah Niwas, Zakaria Road, Malad(w)','sakshijadhav@gmail.com','2012-03-09',765432109
92    (105,'Hrishav Pandey','Male',38,'Ramanand Society, Gokhale Road, Naupada, Near Samarth Bhandar, Thane(w)','hrishavpandey@ya
93    (106,'Sneha Gore','Female',13,'18, Lila Mandir, Pestom Sagar Rd-4, Opp Shoperstop, Chembur',NULL,'2010-09-09',8765123459),
94    (107,'Sapna Chandan','Female',14,'K K Marg, 560 Rasul Compound, Jacob Circle',NULL,'2009-07-25',7651234980),
95    (108,'Kartik Singh','Male',30,'15, Kesakaka Compound, I.b.patel Road, Kalbadevi','kartiksingh@yahoo.com','1993-03-17',90688
96    (109,'     Sahil Yadav','Male',22,'19, Rajmahal Shopping Centre, Azad Road, Andheri (west)','sahilyadav@gmail.com','2001-04-
97    (110,'Himanshu Singh','Male',6,'Silvadwel Ground Flo Silvadwel, 3 Silvadwel 447 Pitambar Lane, Mahim','himanshusingh22@gmai
98    (111,'Dhanashree Pawar','Female',40,'Chandivali Indl Area, Off Saki Vihar Rd, Sakinaka, Andheri(e)',NULL,'1982-12-12',79582
99    (112,'Shinchana Chandan','Female',34,'21, O/s Shahpur Gate, Ahemdabad','shinchanachandan@gmail.com','1998-11-14',6747321345
100   (113,'Gauri Gonjari       ','Female',28,'Shop No 15, 52/52a, Corner Of Islampura Stree, Nanubahi Desai Rd, Khetwadi','gauri
101   (114,'       Akshata Mane     ','Female',35,'11, G 4 Mahavir Mahal, 130 Garodia Nagar, Nr Patankar Park, Ghatkopar (east)','
102   (115,'Khushi Cheddha','Female',85,'412, 4th Floor, Laxmi Plaza, Link Rd, Laxmi Indl Est, Andheri (west)','khushicheddha@gma
103   (116,'Deepak Jadhav','Male',38,'69/6, Golde Wal Building, Bhandari Street, Girgaon','deepakjadhav@yahoo.com','1985-02-07',9
104   (117,'    Sahil Acharekar','Male',63,'C-75/2, 3rd Stage, Peenya Industrial Estate, Bangalore','sahilacharekar@yahoo.com','1
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
304	20:22:58	INSERT INTO patients VALUES (101,'Kshitija Jadhav','Female',20,'271,...	41 row(s) affected Records: 41 Duplicates: 0 Warnings: 0	0.000 sec
305	20:23:01	INSERT INTO doctor VALUES (1,'Ashish Prajapati','Male','Diabetes Mel...	20 row(s) affected Records: 20 Duplicates: 0 Warnings: 0	0.000 sec
306	20:23:03	INSERT INTO appointment VALUES (10001,124,1,'2023-09-15','2023-...	12 row(s) affected Records: 12 Duplicates: 0 Warnings: 0	0.000 sec
307	20:23:04	INSERT INTO prescription VALUES (5101,138,'HERCEPTIN 440MG I...	40 row(s) affected Records: 40 Duplicates: 0 Warnings: 0	0.000 sec
308	20:23:06	INSERT INTO medicine VALUES (501,'Insulin Injection','Diabetes Mellit...	37 row(s) affected Records: 37 Duplicates: 0 Warnings: 0	0.000 sec
309	20:23:09	INSERT INTO medicine_bill VALUES (106,'Melphalan 5 Mg Tablet',393...	20 row(s) affected Records: 20 Duplicates: 0 Warnings: 0	0.000 sec
310	20:23:11	INSERT INTO bill(B_ID,P_ID,D_ID,Doc_Charges,Sep_Charges) VALU...	40 row(s) affected Records: 40 Duplicates: 0 Warnings: 0	0.000 sec

➢Delete a row

Delete an entry having p_id = 141 from patients table

```
312 •   DELETE FROM patients
313     WHERE P_ID = 141;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
311	20:23:35	DELETE FROM patients WHERE P_ID = 141	1 row(s) affected	0.000 sec

➢Update a row

Update an entry of dob to '2020-01-10' from patients table having email = 'prathameshsawkare@yahoo.com'

```
315 •   UPDATE patients
316     SET DOB = '2020-01-10'
317     WHERE Email = 'prathameshsawkare@yahoo.com';
```

Output

Action Output

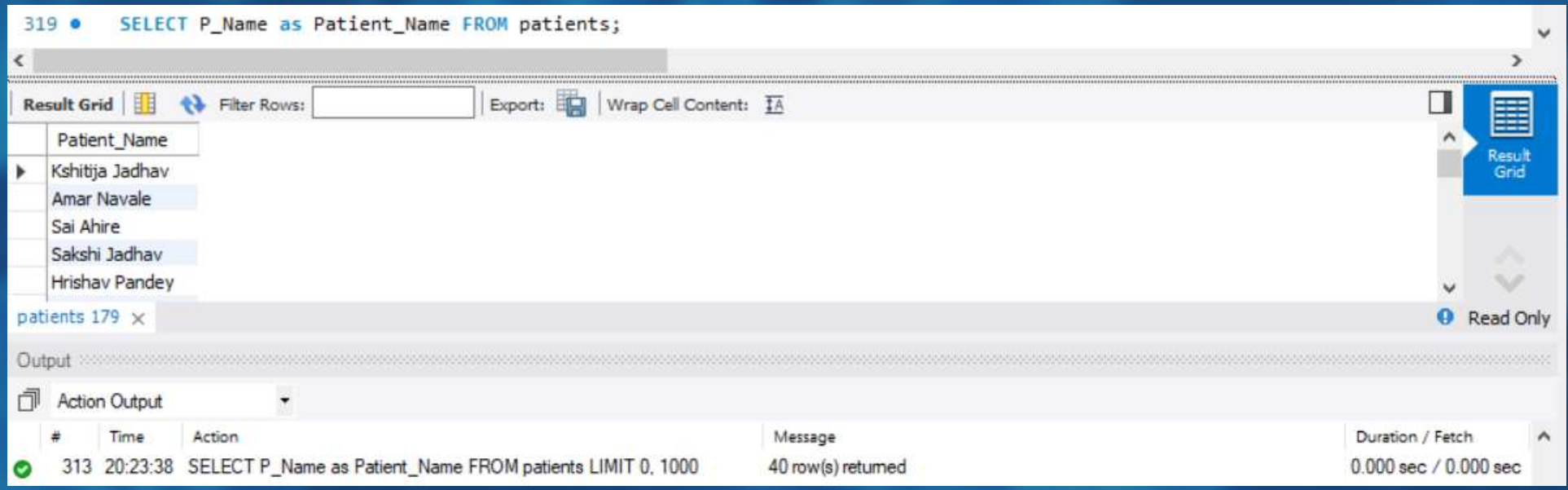
#	Time	Action	Message	Duration / Fetch
312	20:23:37	UPDATE patients SET DOB = '2020-01-10' WHERE Email = 'prathame...	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec

DATA QUERY LANGUAGE (DQL)

➢ As clause

- Alias –

Display p_name from patients table as Patient_Name



➢IS OPERATOR

- IS NULL –

DISPLAY DETAILS OF PATIENTS WHOSE EMAIL IS NULL

```
321 •   SELECT * FROM patients WHERE Email IS NULL;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

P_ID	P_Name	Gender	age	Address	Email	DOB	Phone_No
106	Sneha Gore	Female	13	18, Lila Mandir, Pestom Sagar Rd-4, Opp Shope...	NULL	2010-09-09	8765123459
107	Sapna Chandan	Female	14	K K Marg, 560 Rasul Compound, Jacob Circle	NULL	2009-07-25	7651234980
111	Dhanashree Pawar	Female	40	Chandivali Indl Area, Off Saki Vihar Rd, Sakinak...	NULL	1982-12-12	7958287004
118	Sahil Dalvi	Male	8	4-1-602, Troop Bazar,Hyderabad	NULL	2015-01-25	8086963081
126	Bibek Majhi	Male	21	3/24, Anand Nagar, Opp Rationing Office, Sant...	NULL	2001-10-21	7978316842

Result Grid | Apply | Revert

patients 180

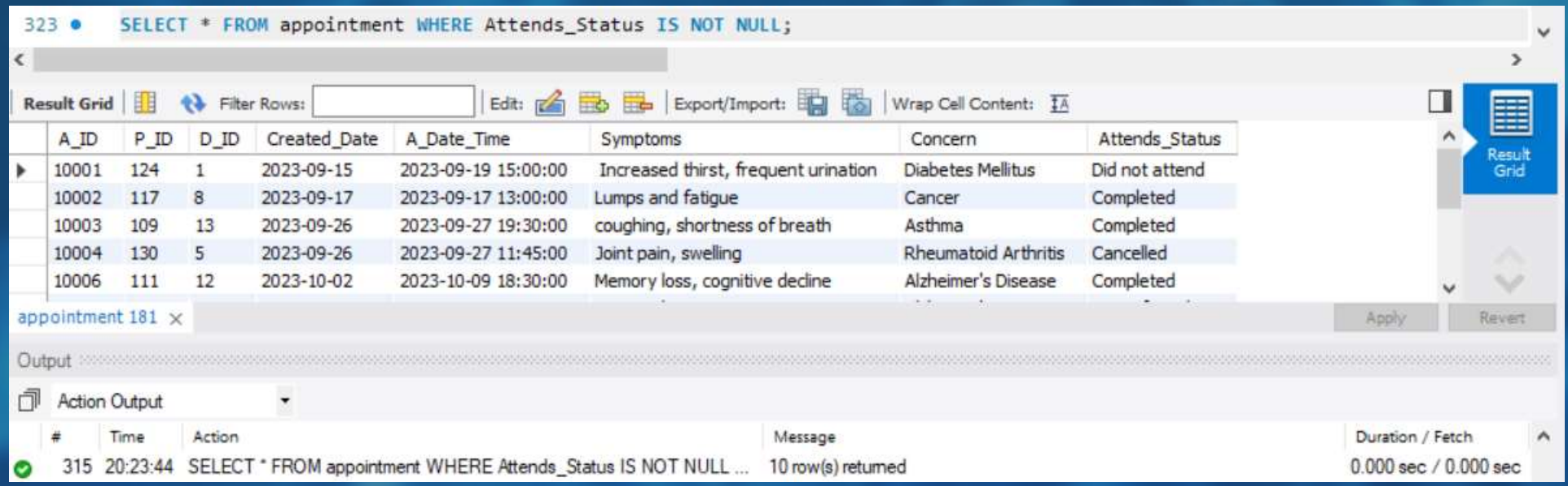
Output

Action Output

#	Time	Action	Message	Duration / Fetch
314	20:23:43	SELECT * FROM patients WHERE Email IS NULL LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

- IS NOT NULL –

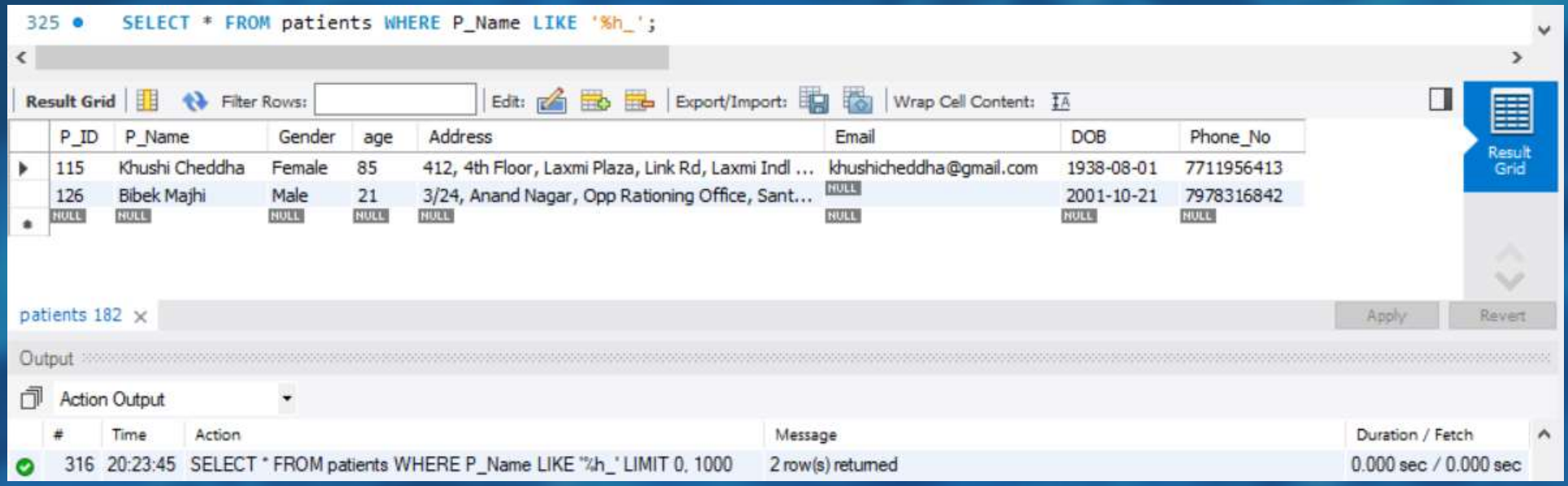
Display details of appointment whose Attends_Status is not NULL



➢Logical opearators

- LIKE –

Display details of patients having second last letter 'h' in their names



- BETWEEN –

Display names and price of medicines whose price is more than 5000 and less than 15000

```
327 •  SELECT M_Name, M_Price FROM Medicine WHERE M_Price BETWEEN 5000 AND 15000;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

M_Name	M_Price
Migraine Ayurvedic Management 30 Days Pack	5225
Mavyret Glecaprevir Pibrentasvir 100 mg/40 mg	13055
Epclusa 400mg 100mg Tablet	6160
Remicade, 100 mg	14000
Bevacirel 100mg /4ml Bevacizumab Injection	5000

Result Grid

Medicine 183 ×

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
317	20:23:48	SELECT M_Name, M_Price FROM Medicine WHERE M_Price BETW...	5 row(s) returned	0.000 sec / 0.000 sec

- AND –

Display P_Name of patients having female gender and 'Singh' in their names

```
327 •   SELECT M_Name, M_Price FROM Medicine WHERE M_Price BETWEEN 5000 AND 15000;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

M_Name	M_Price
Migraine Ayurvedic Management 30 Days Pack	5225
Mavyret Glecaprevir Pibrentasvir 100 mg/40 mg	13055
Epclusa 400mg 100mg Tablet	6160
Remicade, 100 mg	14000
Bevacirel 100mg /4ml Bevacizumab Injection	5000

Result Grid | Form Editor | Read Only

Medicine 16

Output

Action Output

#	Time	Action	Message	Duration / Fetch
30	13:53:41	SELECT M_Name, M_Price FROM Medicine WHERE M_Price BETW...	5 row(s) returned	0.000 sec / 0.000 sec

- OR –

Display details of patients who are from Malad or Andheri

```
329 •   SELECT * FROM patients WHERE Address LIKE '%Malad%' OR Address LIKE '%Andheri%';
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

P_ID	P_Name	Gender	age	Address	Email	DOB	Phone_No
103	Sai Ahire	Male	17	S V Road, Malad Shopping Centr Opp Bank Of B...	saiahire@yahoo.com	2006-02-12	8765432109
104	Sakshi Jadhav	Female	11	1/1a, Shah Niwas, Zakaria Road, Malad(w)	sakshijadhav@gmail.com	2012-03-09	7654321098
109	Sahil Yadav	Male	22	19, Rajmahal Shopping Centre, Azad Road, An...	sahilyadav@gmail.com	2001-04-19	7030821253
111	Dhanashree Pawar	Female	40	Chandivali Indl Area, Off Saki Vihar Rd, Sakinak...	NULL	1982-12-12	7958287004
115	Khushi Cheddha	Female	85	412, 4th Floor, Laxmi Plaza, Link Rd, Laxmi Indl ...	khushicheddha@gmail.com	1938-08-01	7711956413

Result Grid | Apply | Revert

patients 189

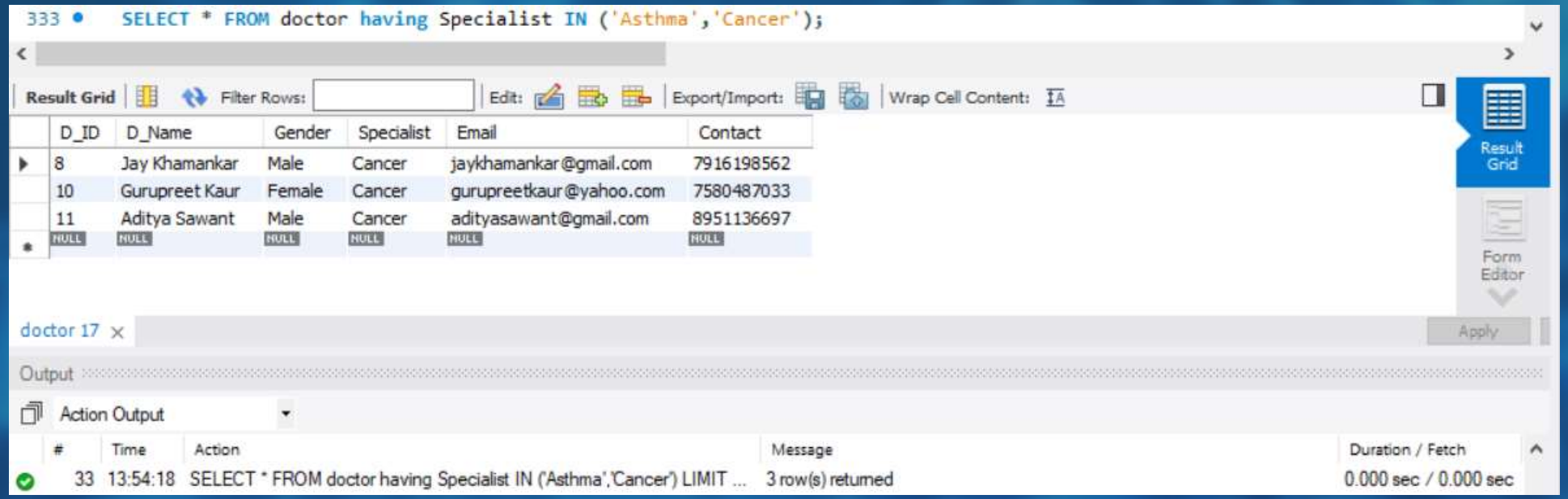
Output

Action Output

#	Time	Action	Message	Duration / Fetch
326	20:57:26	SELECT * FROM patients WHERE Address LIKE '%Malad%' OR Addre...	7 row(s) returned	0.000 sec / 0.000 sec

- IN –

Display details of doctors who are Ashtma and Cancer Specialist.



- NOT –

Display details of appointment whose Concern is not 'Diabetes Mellitus'

```
335 •   SELECT * FROM appointment WHERE NOT Concern = 'Diabetes Mellitus';
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

A_ID	P_ID	D_ID	Created_Date	A_Date_Time	Symptoms	Concern	Attends_Status
10002	117	8	2023-09-17	2023-09-17 13:00:00	Lumps and fatigue	Cancer	Completed
10003	109	13	2023-09-26	2023-09-27 19:30:00	coughing, shortness of breath	Asthma	Completed
10004	130	5	2023-09-26	2023-09-27 11:45:00	Joint pain, swelling	Rheumatoid Arthritis	Cancelled
10005	107	1	2023-09-30	2023-10-01 10:00:00	Severe headaches,nausea	Migraine	NULL
10006	111	12	2023-10-02	2023-10-09 18:30:00	Memory loss, cognitive decline	Alzheimer's Disease	Completed
10007	120	2	2023-10-07	2023-10-15 11:30:00	Memory loss	Alzheimer's Disease	Unconfirmed

Result Grid | Form Editor | Apply

appointment 18

Output

Action Output

#	Time	Action	Message	Duration / Fetch
34	13:54:19	SELECT * FROM appointment WHERE NOT Concern = 'Diabetes Mellit...	11 row(s) returned	0.000 sec / 0.000 sec

➢Comparison opearators

- SMALLER THAN (<) –

Display details of patients whose age is smaller than 15

```
337 •   SELECT * FROM patients WHERE Age < 15;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

P_ID	P_Name	Gender	age	Address	Email	DOB	Phone_No
102	Amar Navale	Male	8	201, Shree Sai Dham, 90 Feet Road, Jhulelal Ch...	amarnavale@gmail.com	2015-09-18	9123456789
104	Sakshi Jadhav	Female	11	1/1a, Shah Niwas, Zakaria Road, Malad(w)	sakshijadhav@gmail.com	2012-03-09	7654321098
106	Sneha Gore	Female	13	18, Lila Mandir, Pestom Sagar Rd-4, Opp Shope...	NULL	2010-09-09	8765123459
107	Sapna Chandan	Female	14	K K Marg, 560 Rasul Compound, Jacob Circle	NULL	2009-07-25	7651234980
110	Himanshu Singh	Male	6	Silvadwel Ground Flo Silvadwel, 3 Silvadwel 447 ...	himanshusingh22@gmail.com	2017-04-10	8432274925
118	Sahil Dalvi	Male	8	4-1-602, Troop Bazar,Hyderabad	NULL	2015-01-25	8086963081

Result Grid | Form Editor | Apply

patients 19

Output

Action Output

#	Time	Action	Message	Duration / Fetch
35	13:54:20	SELECT * FROM patients WHERE Age < 15 LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec

- GREATER THAN (>) –

DISPLAY DETAILS OF APPOINTMENT HAVE SCHEDULED THE APPOINTMENT AFTER '2023-09-30'

```
339 •   SELECT * FROM appointment where A_Date_Time > '2023-09-30';
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

A_ID	P_ID	D_ID	Created_Date	A_Date_Time	Symptoms	Concern	Attends_Status
10005	107	1	2023-09-30	2023-10-01 10:00:00	Severe headaches,nausea	Migraine	NULL
10006	111	12	2023-10-02	2023-10-09 18:30:00	Memory loss, cognitive decline	Alzheimer's Disease	Completed
10007	120	2	2023-10-07	2023-10-15 11:30:00	Memory loss	Alzheimer's Disease	Unconfirmed
10008	126	5	2023-10-07	2023-10-08 19:00:00	Joint pain, stiffness	Rheumatoid Arthritis	NULL
10009	139	18	2023-10-07	2023-10-12 12:25:00	Fever, cough, sore throat	Influenza	Completed
10010	127	12	2023-10-10	2023-10-14 17:00:00	Jaundice, fatigue, abdominal pain	Hepatitis C	Rescheduled

Result Grid | Form Editor | Apply

appointment 20

Output

Action Output

#	Time	Action	Message	Duration / Fetch
36	13:54:22	SELECT * FROM appointment where A_Date_Time > '2023-09-30' LIMI...	8 row(s) returned	0.000 sec / 0.000 sec

- SMALLER THAN OR EQUAL TO (<=) –

DISPLAY DETAILS OF DOCTORS WHO HAVE CHARGED LESS THAN OR EQUAL TO 1500

```
341 •   SELECT * FROM bill where Doc_Charges <= 1500;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

B_ID	P_ID	D_ID	Doc_Charges	Sep_Charges	Total_Charges
901	101	1	1500	45000	NULL
902	102	16	1500	11880	NULL
903	103	18	1000	2500	NULL
907	107	1	1500	43500	NULL
908	108	4	1500	20000	NULL
909	109	13	1000	5000	NULL

Result Grid | Form Editor | Apply

bill 21

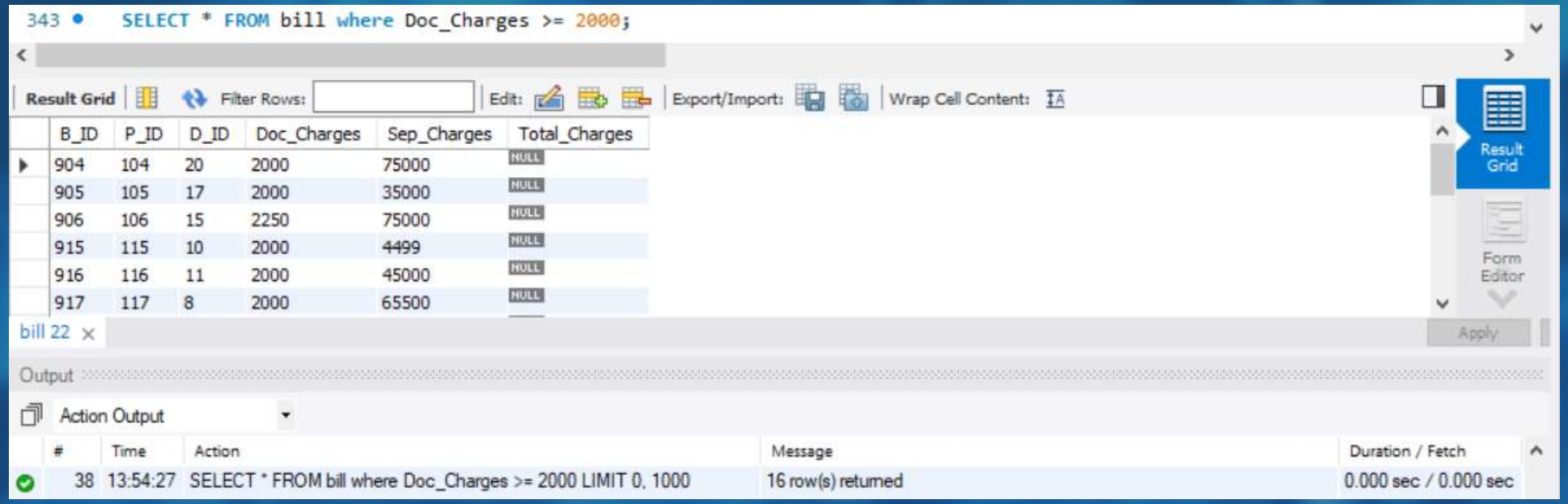
Output

Action Output

#	Time	Action	Message	Duration / Fetch
37	13:54:24	SELECT * FROM bill where Doc_Charges <= 1500 LIMIT 0, 1000	22 row(s) returned	0.000 sec / 0.000 sec

- GREATER THAN OR EQUAL TO (>=)–

DISPLAY DETAILS OF DOCTORS WHO HAVE CHARGED MORE THAN OR EQUAL TO 2000



- NOT EQUAL TO (!=) –

DISPLAY DETAILS OF APPOINTMENT WHOSE CONCERN NOT 'ALZHEIMER'S DISEASE'

```
345 •   SELECT * FROM appointment WHERE Concern != 'Alzheimer\'s Disease';
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

A_ID	P_ID	D_ID	Created_Date	A_Date_Time	Symptoms	Concern	Attends_Status
10001	124	1	2023-09-15	2023-09-19 15:00:00	Increased thirst, frequent urination	Diabetes Mellitus	Did not attend
10002	117	8	2023-09-17	2023-09-17 13:00:00	Lumps and fatigue	Cancer	Completed
10003	109	13	2023-09-26	2023-09-27 19:30:00	coughing, shortness of breath	Asthma	Completed
10004	130	5	2023-09-26	2023-09-27 11:45:00	Joint pain, swelling	Rheumatoid Arthritis	Cancelled
10005	107	1	2023-09-30	2023-10-01 10:00:00	Severe headaches,nausea	Migraine	NULL
10008	126	5	2023-10-07	2023-10-08 19:00:00	Joint pain, stiffness	Rheumatoid Arthritis	NULL

Result Grid | Form Editor | Apply

appointment 23 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
39	13:54:29	SELECT * FROM appointment WHERE Concern != 'Alzheimer\'s Diseas...	10 row(s) returned	0.000 sec / 0.000 sec

- EQUAL TO (=) –

Display details of patient whose p_id is 121

```
347 •   SELECT * FROM patients WHERE P_ID = 121;
348
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

P_ID	P_Name	Gender	age	Address	Email	DOB	Phone_No
121	Arohi Shivkar	Female	56	10, Soni Chambers, Ag Street, Opera House, M...	arohishivkar@yahoo.com	1967-08-22	8704904943
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Form Editor | Apply

patients 28

Output

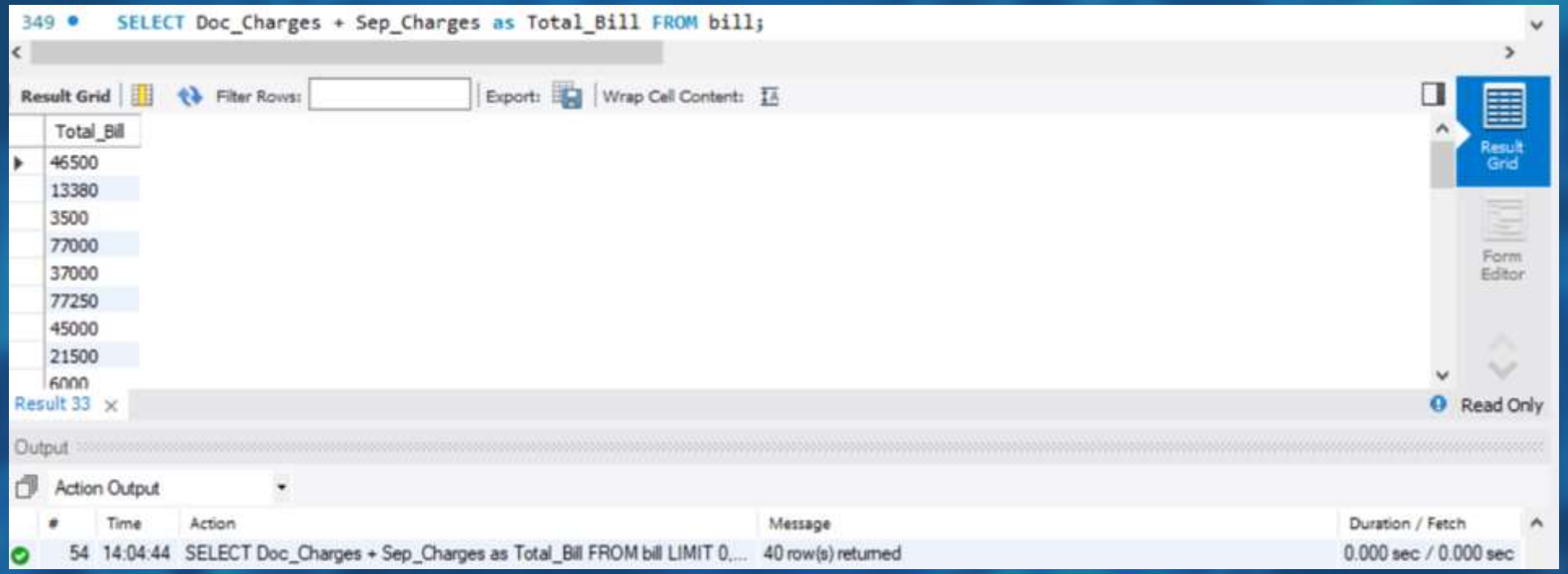
Action Output

#	Time	Action	Message	Duration / Fetch
49	14:03:56	SELECT * FROM patients WHERE P_ID = 121 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

➢ Arithmetic opearators

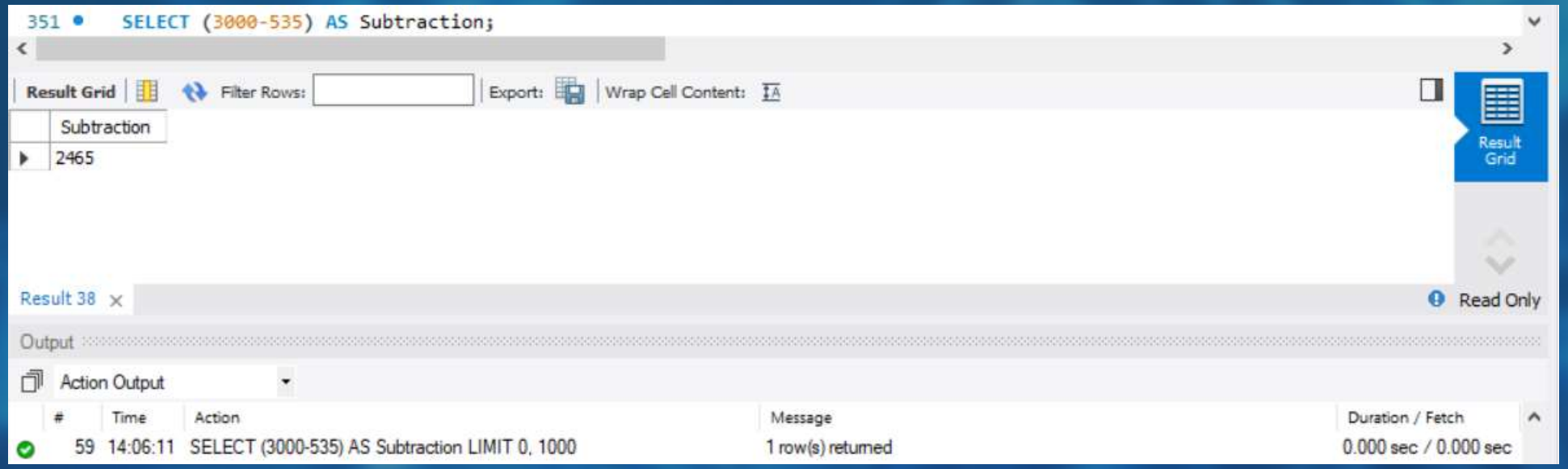
- ADD (+) –

Add Doc_Charges and Sep_Charges as Toatl_Bill from bill table



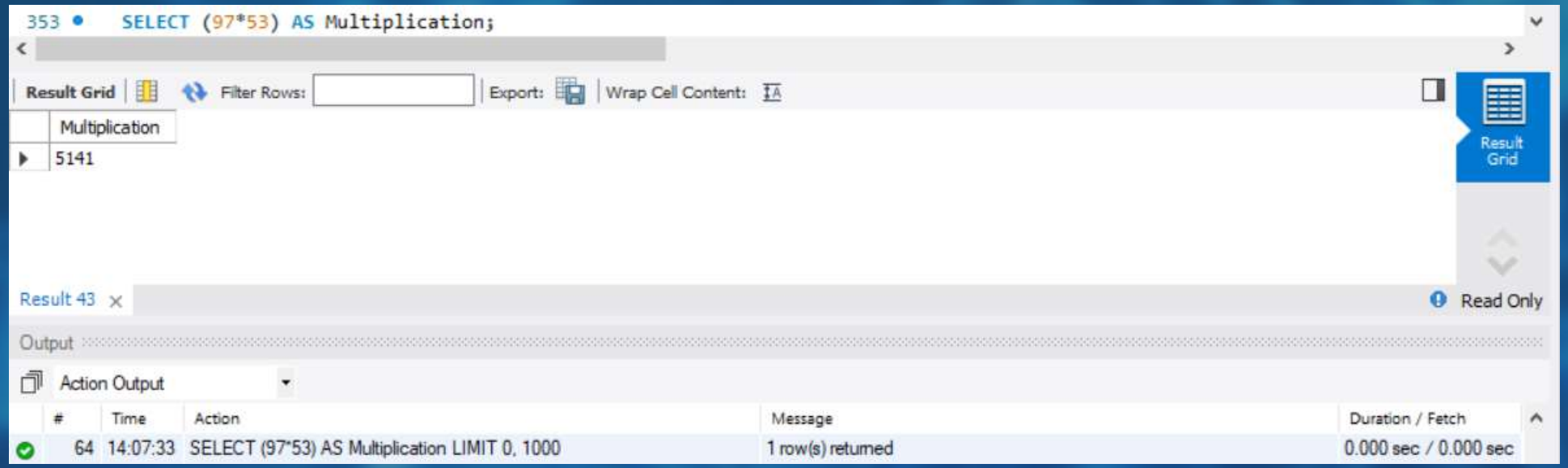
- SUTRACT (-) –

RETURN THE VALUE OF 3000 MINUS 535



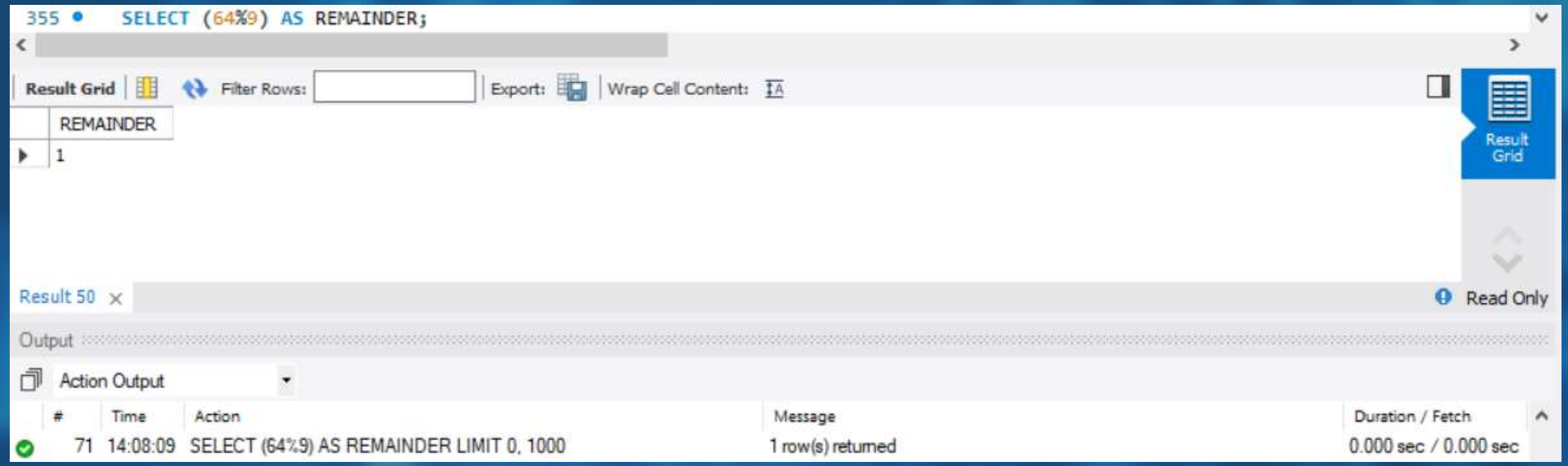
- MULTIPLY (*) –

RETURN THE MULTIPLICATION OF 97 AND 53



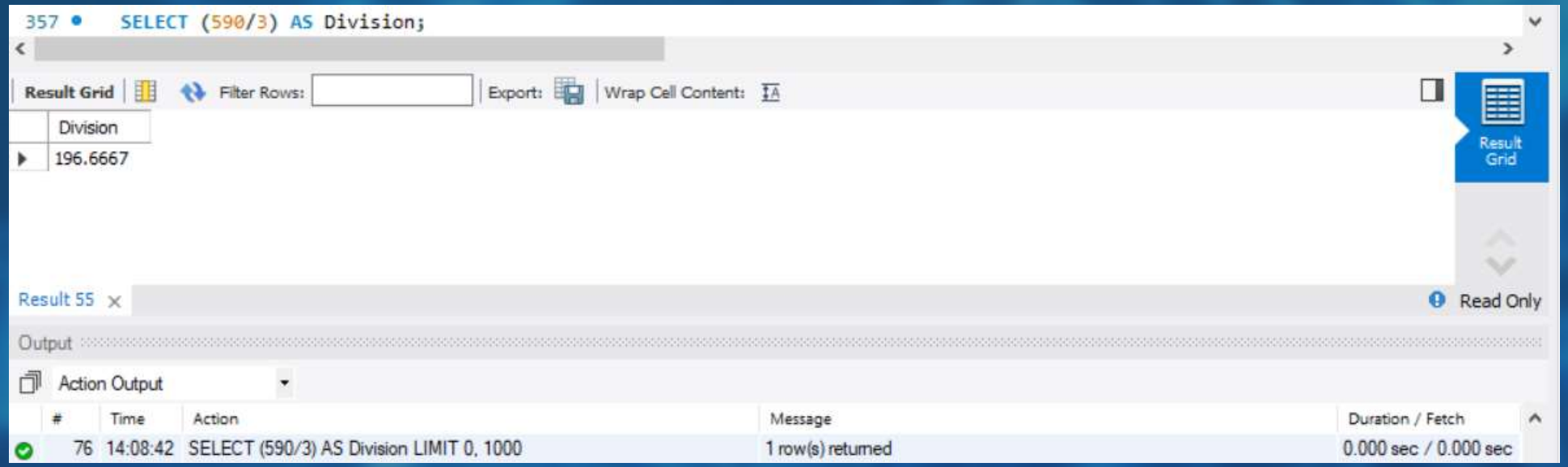
- MODULO (%) –

RETURN THE REMAINDER OF 64 DIVIDE BY 9



- DIVIDE (/) –

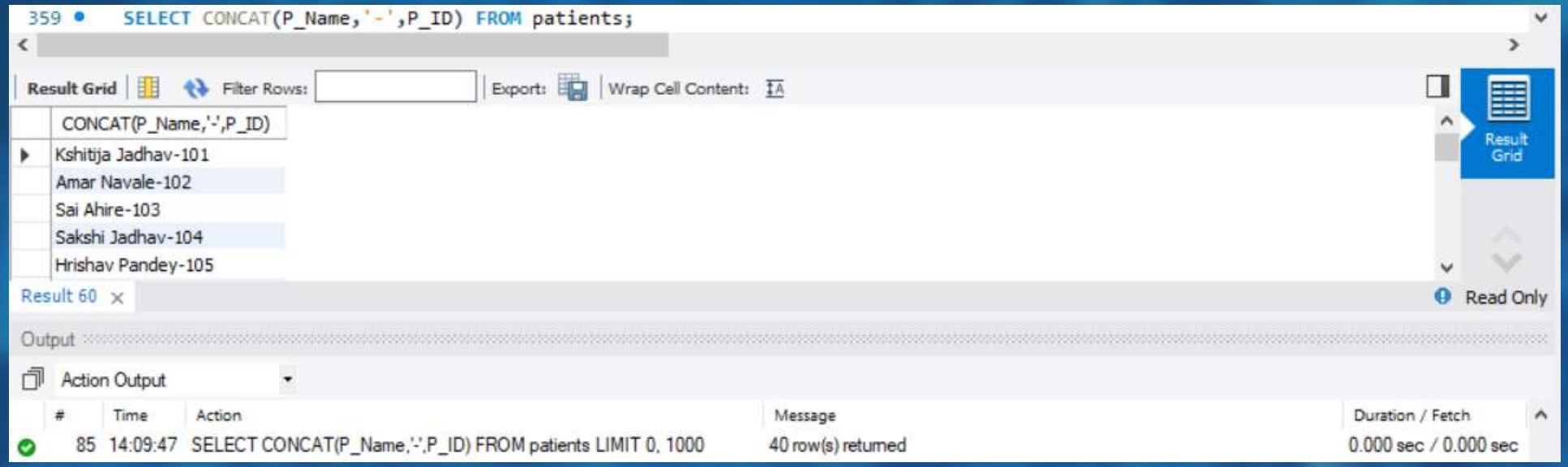
RETURN THE VALUE OF 590 DIVIDE BY 3



➢String function

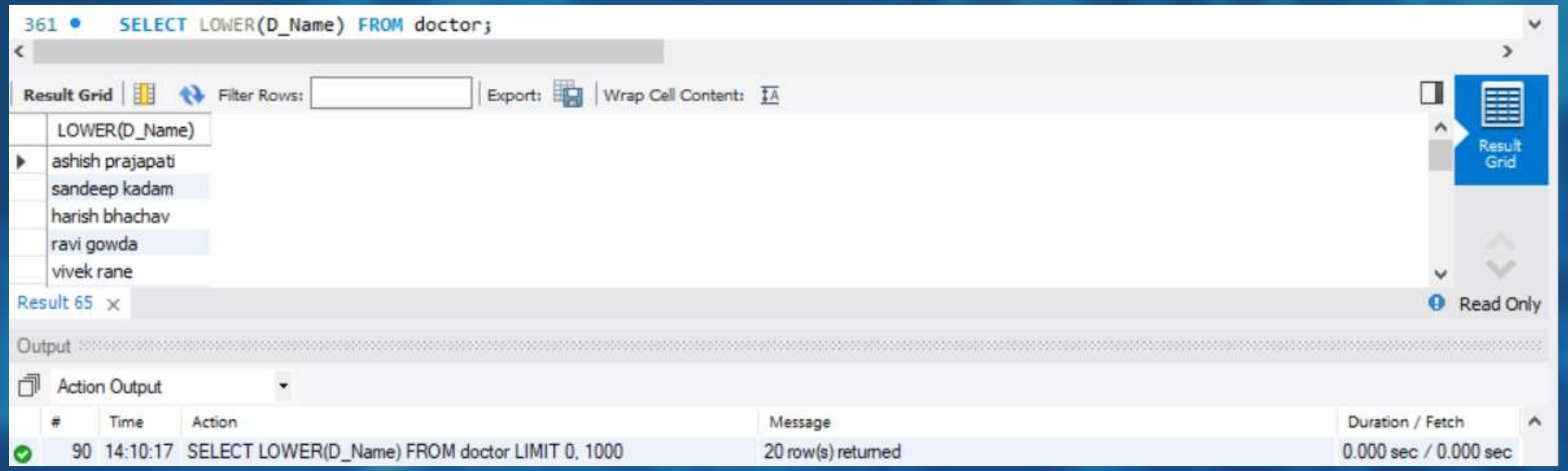
- CONCAT –

Display Name and ID of patients in a single column



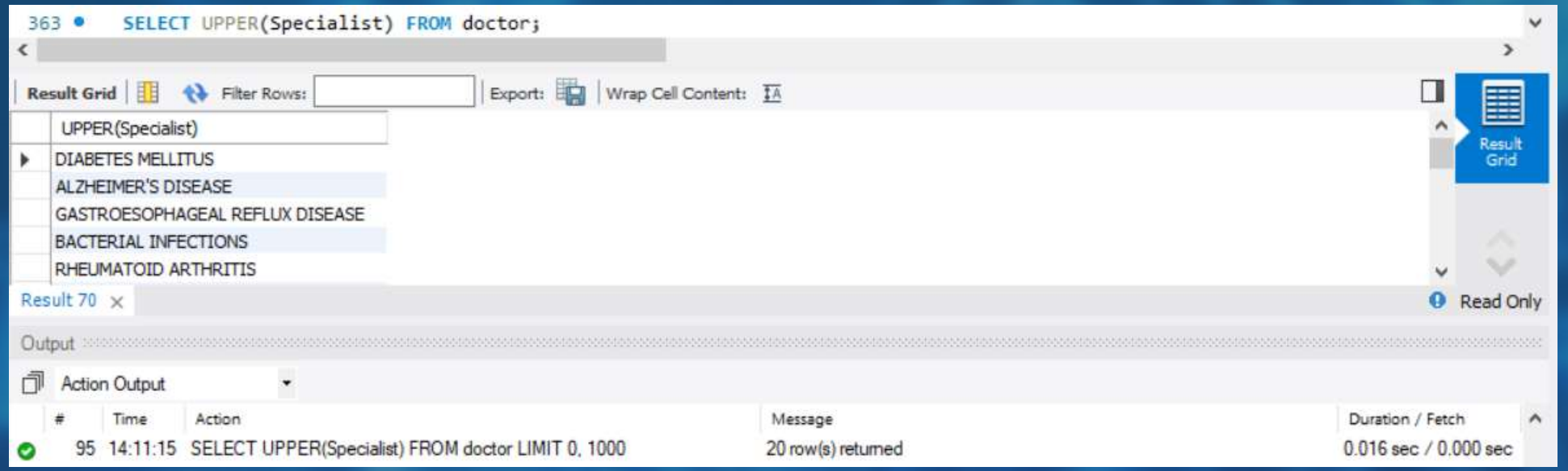
- LOWER –

Display the names of doctors in lower case



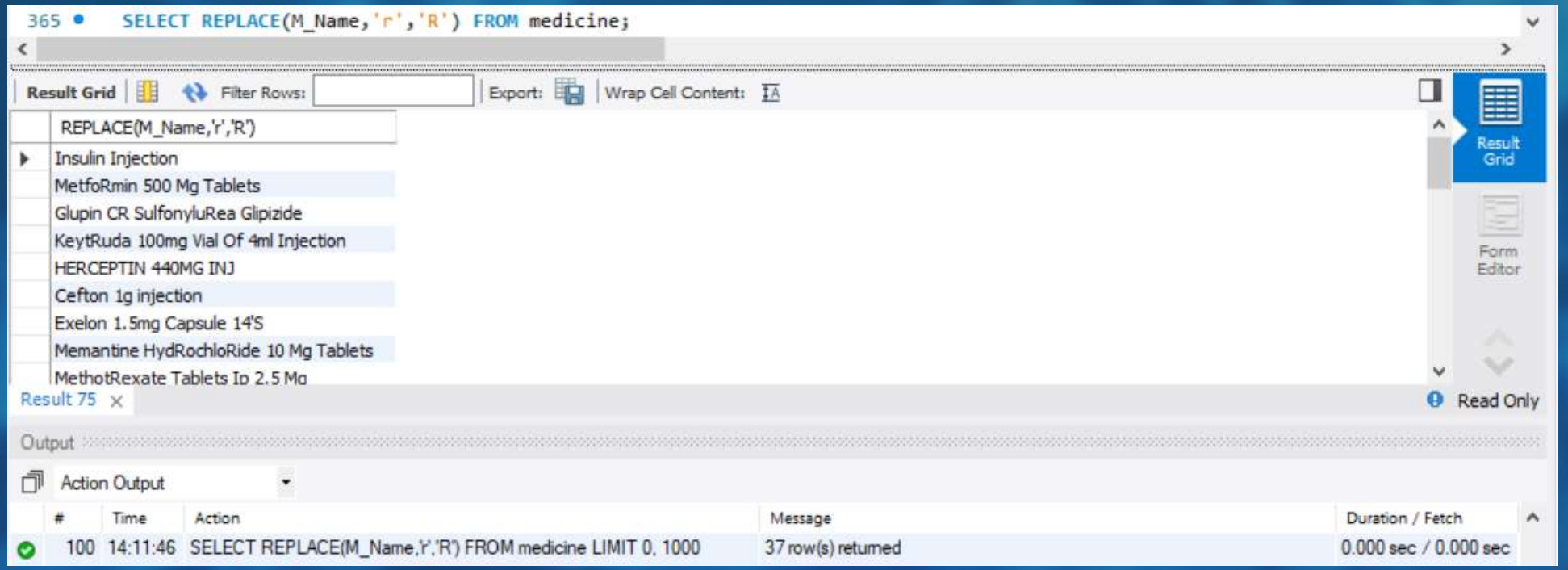
- UPPER –

Display specialist from doctor in upper case



- REPLACE –

Replace the small with capital 'R' of M_Name from medicine table



- REVERSE –

Reverse the M_Type from medicine table

```
367 •   SELECT REVERSE(M_Type) FROM medicine;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

REVERSE(M_Type)
sutilleM setebaiD
sutilleM setebaiD
sutilleM setebaiD
recnaC
recnaC
siticidneppA
esaesiD s'remiehzlA
esaesiD s'remiehzlA
sitirhtrA diotamuehR
sitirhtrA diotamuehR

Result Grid | Form Editor | Field Types | Read Only

Result 80

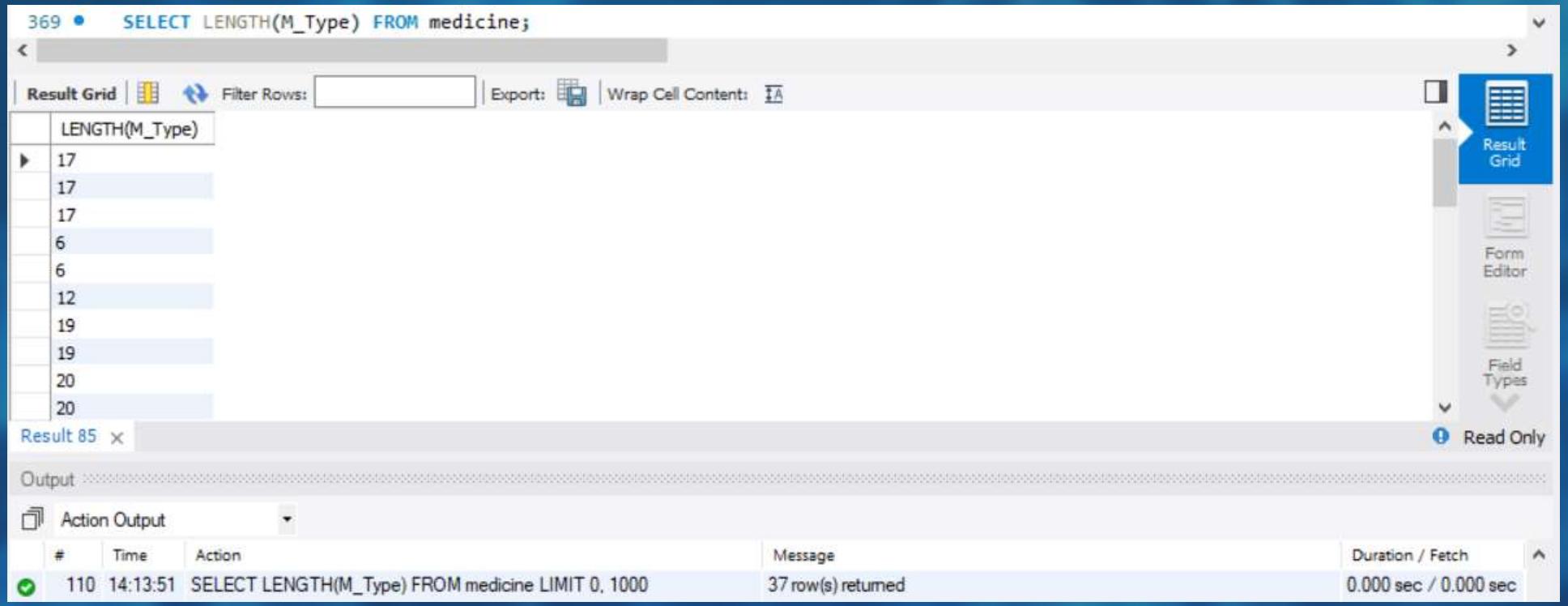
Output

Action Output

#	Time	Action	Message	Duration / Fetch
105	14:13:12	SELECT REVERSE(M_Type) FROM medicine LIMIT 0, 1000	37 row(s) returned	0.000 sec / 0.000 sec

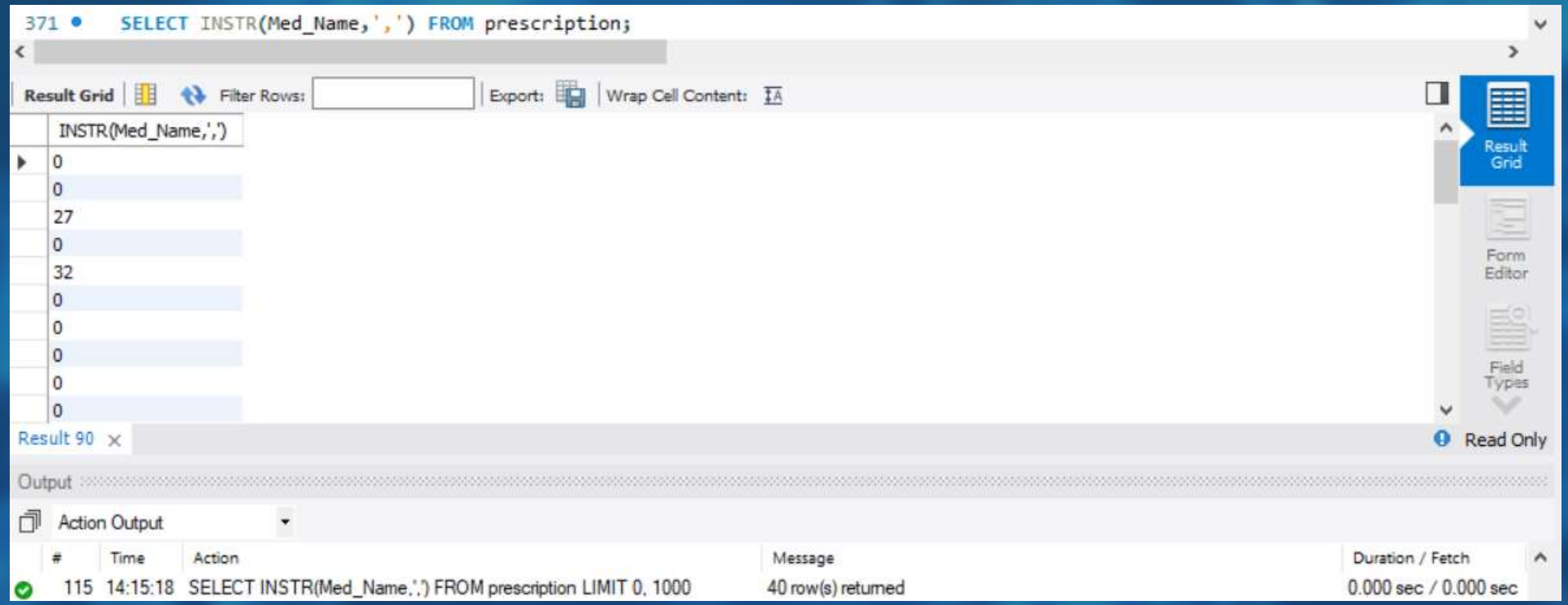
- LENGTH –

Display the length of M_Type from medicine table



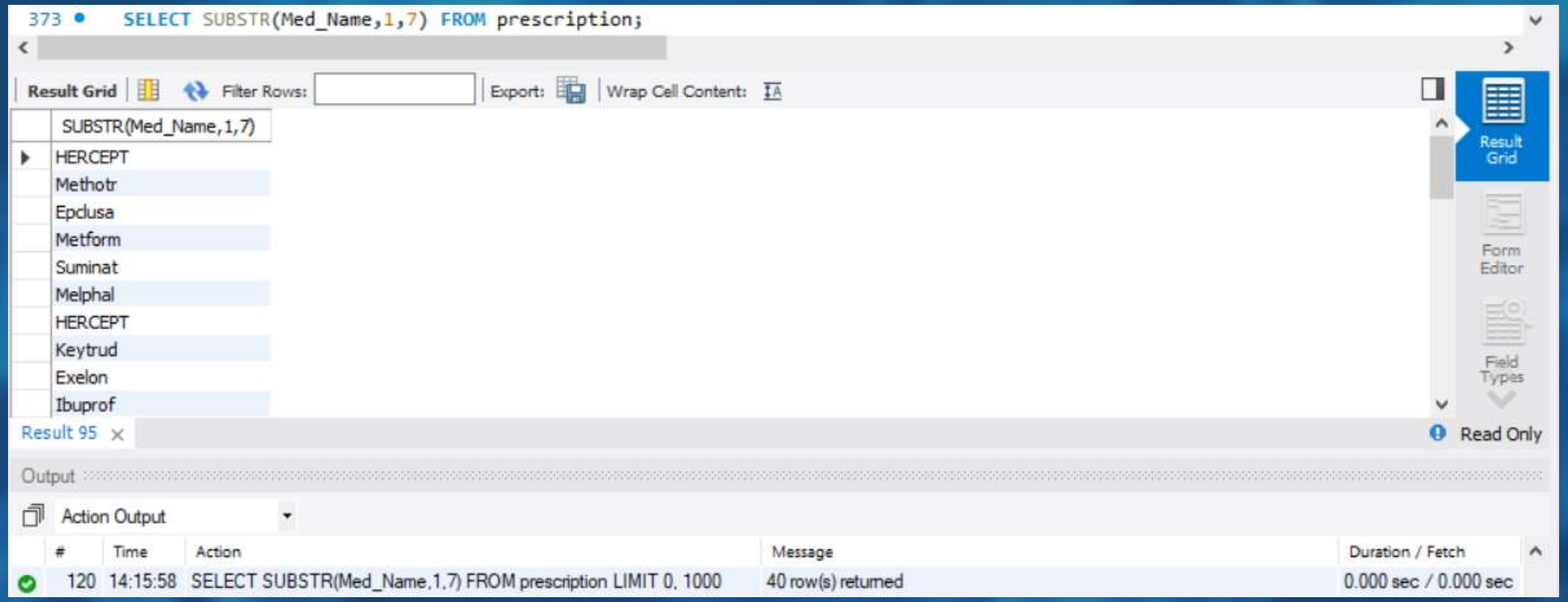
- INSTR –

Display the occurrence of comma(,) in Med_Name from prescription table



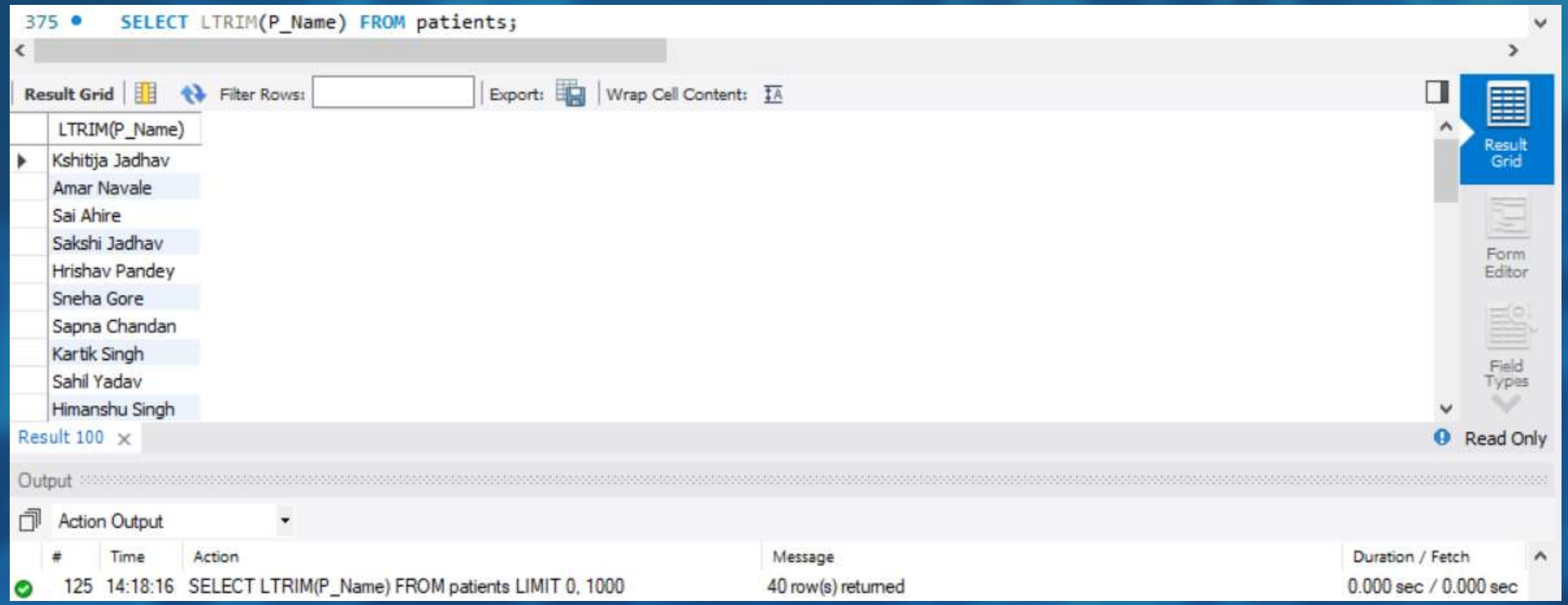
- SUBSTR –

Display the Med_Name within the index of 1 to 7 from prescription table



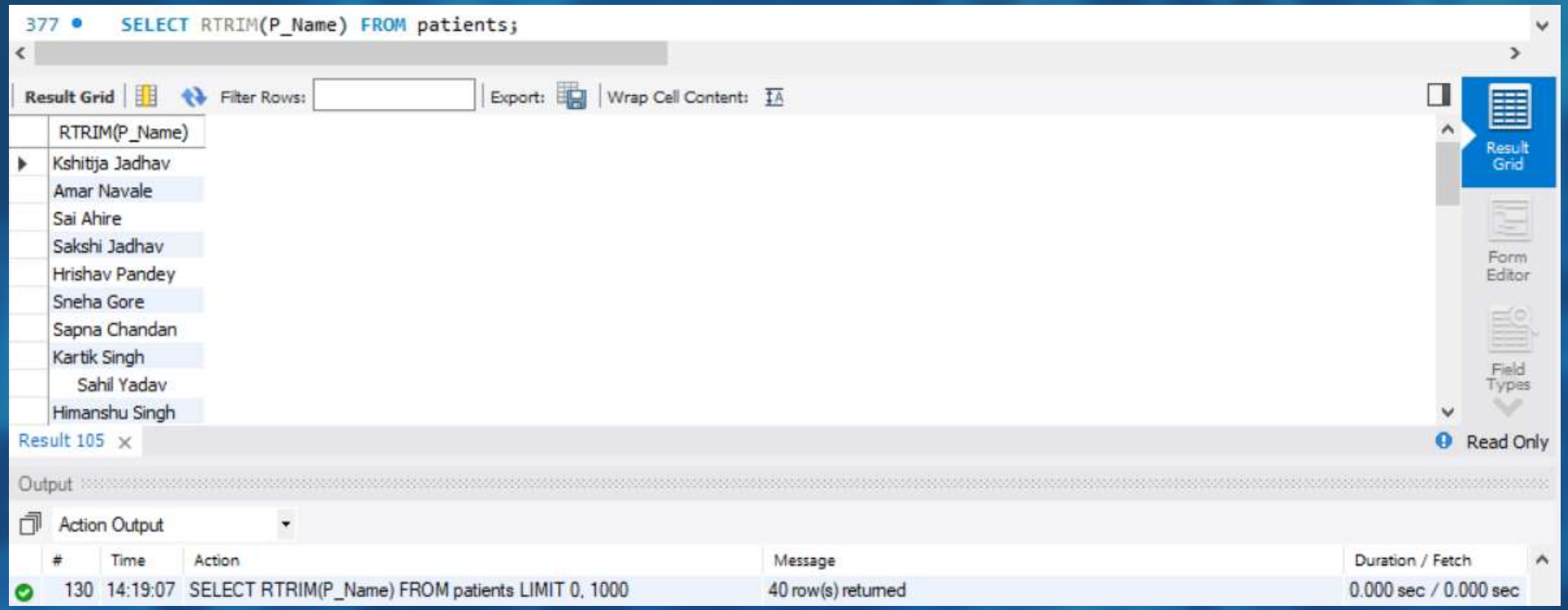
- LTRIM –

Display the names of patient after removing the left blank space



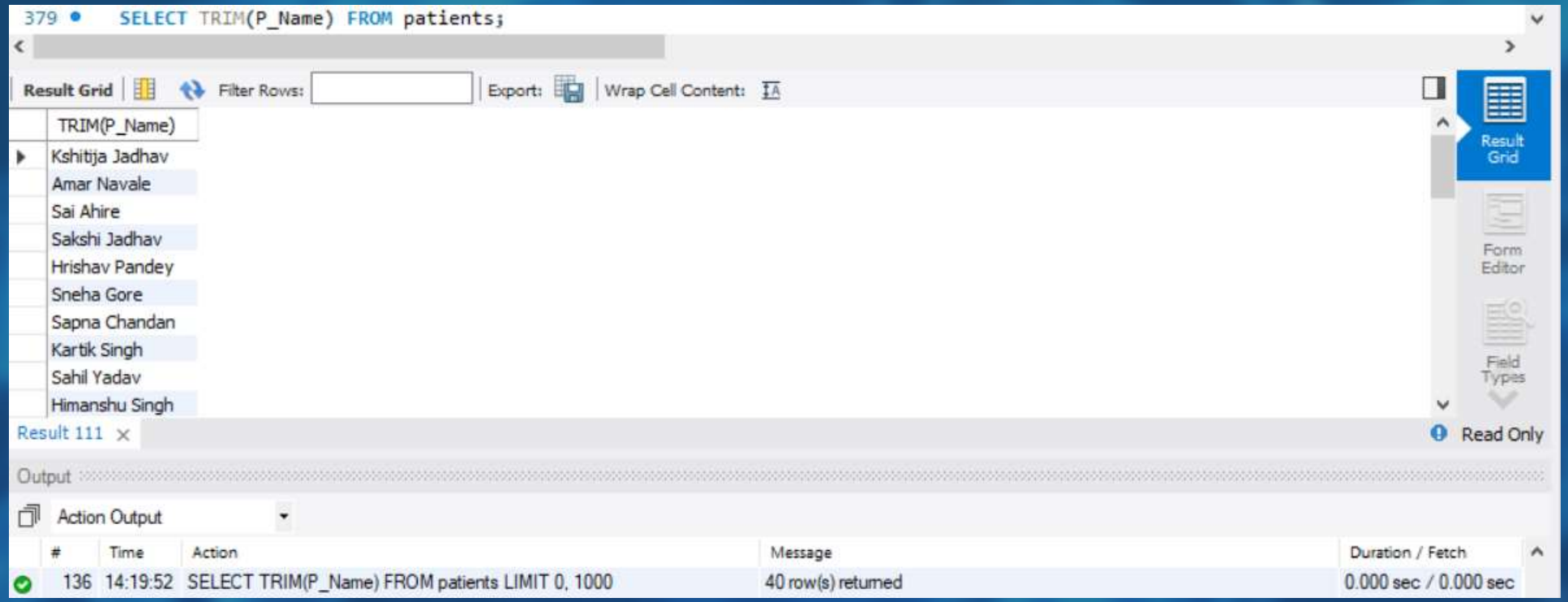
- RTRIM –

Display the names of patient after removing the right blank space



- TRIM –

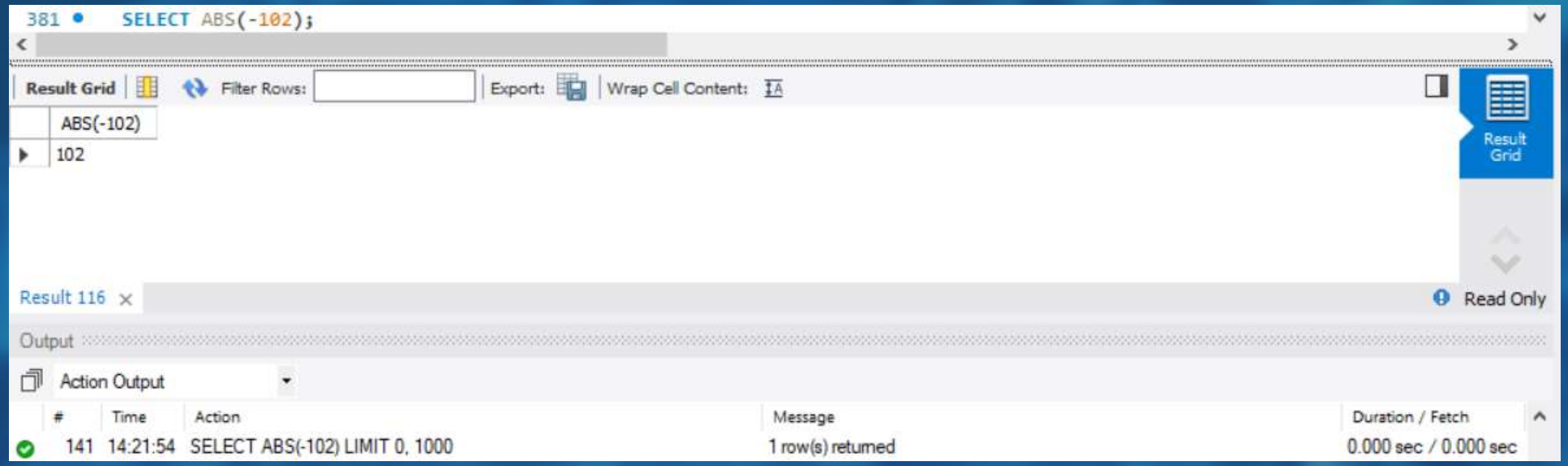
Display the names of patient after removing the blank spaces of both left and right sides



➢Math function

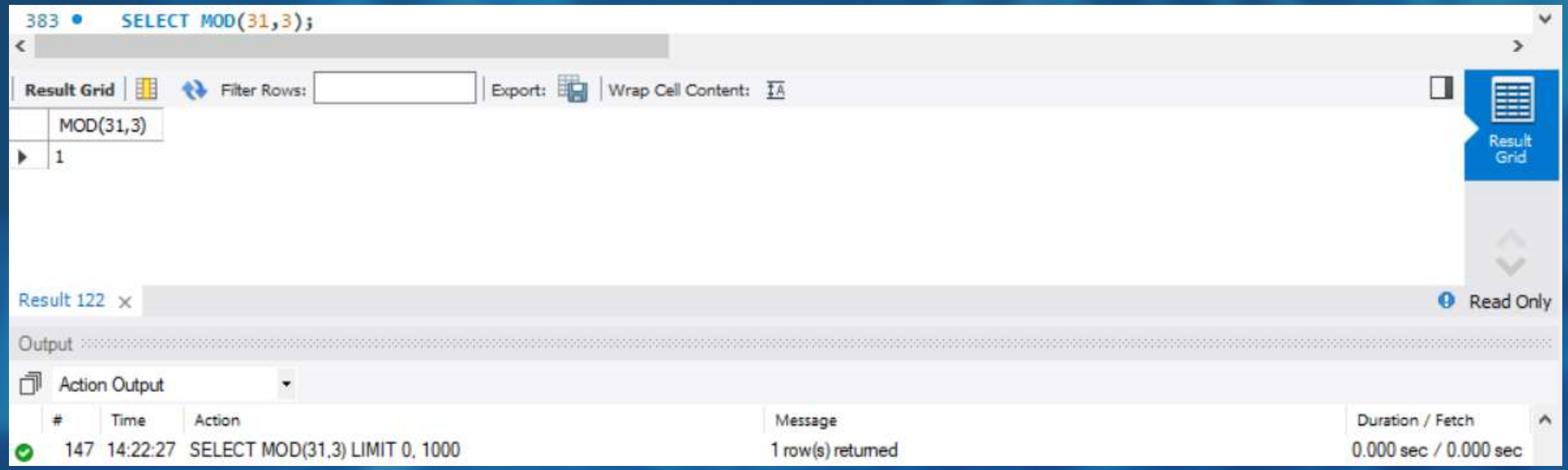
- ABS –

Return the absolute value of (-102)



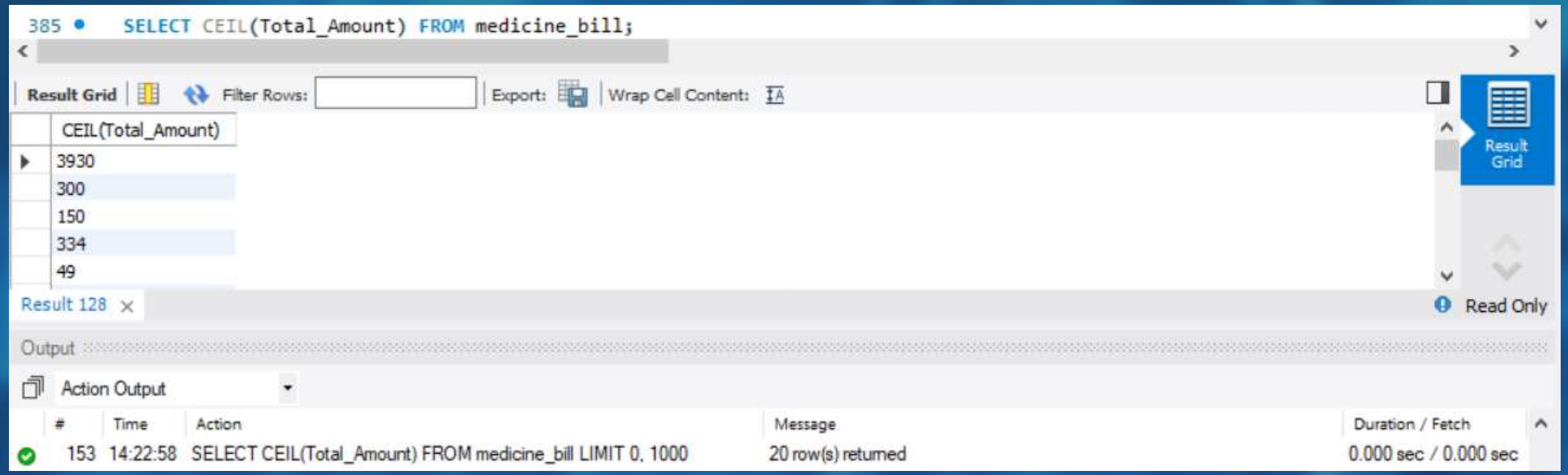
- MOD –

Return the remainder of 31 divide by 3



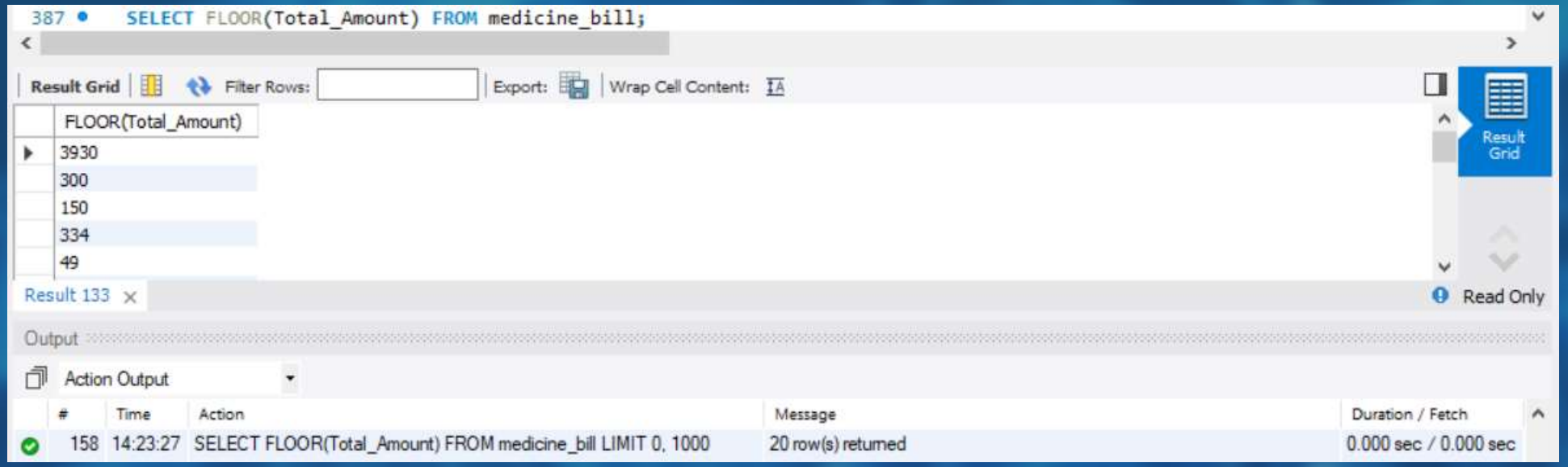
- CEIL –

Return the largest but the closest integer value of Total_Amount from medicine_bill table



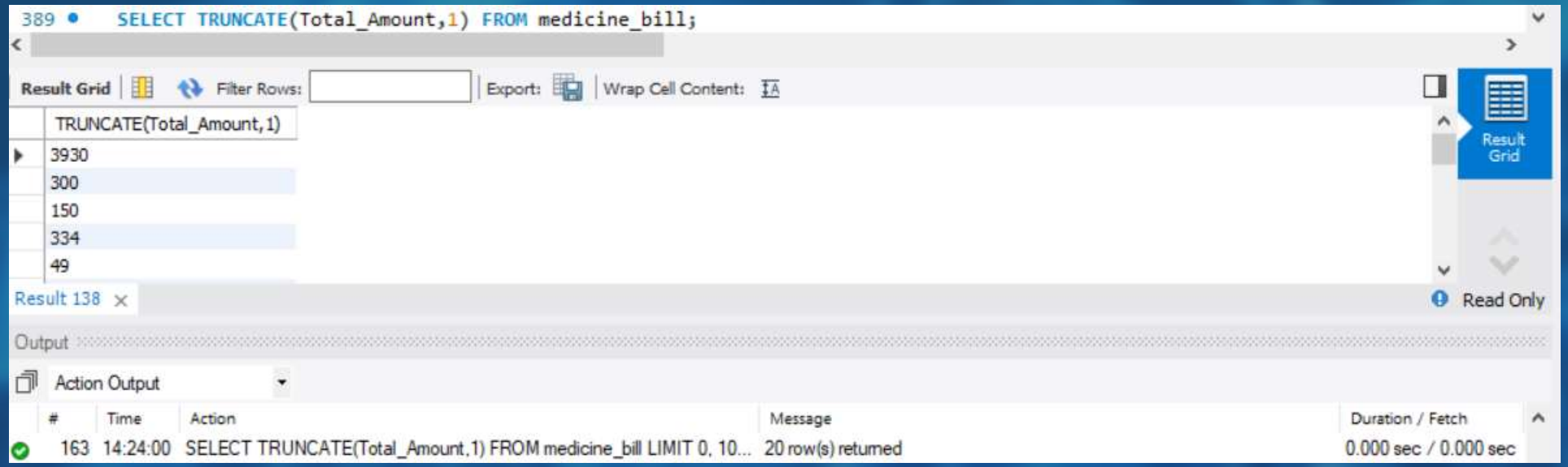
- FLOOR –

Return the smallest but the closest integer value of Total_Amount from medicine_bill table



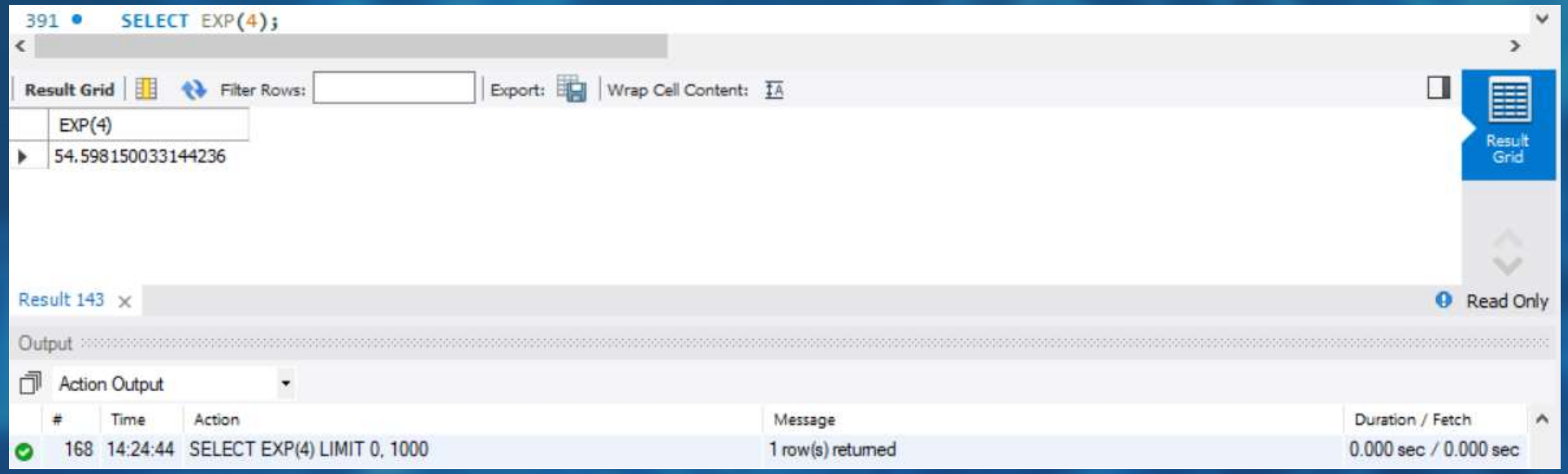
- TRUNCATE –

RETURN THE TOTAL_AMOUNT WITH SINGLE DECIMAL VALUE FROM MEDICINE_BILL TABLE



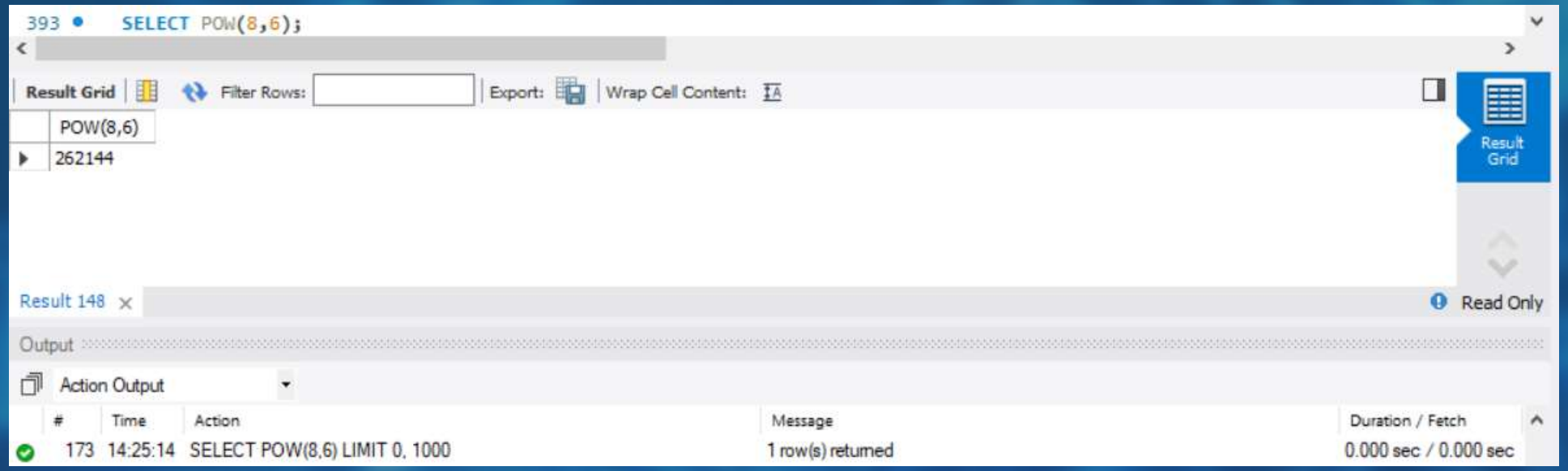
- EXP –

Return the exponential value of 4



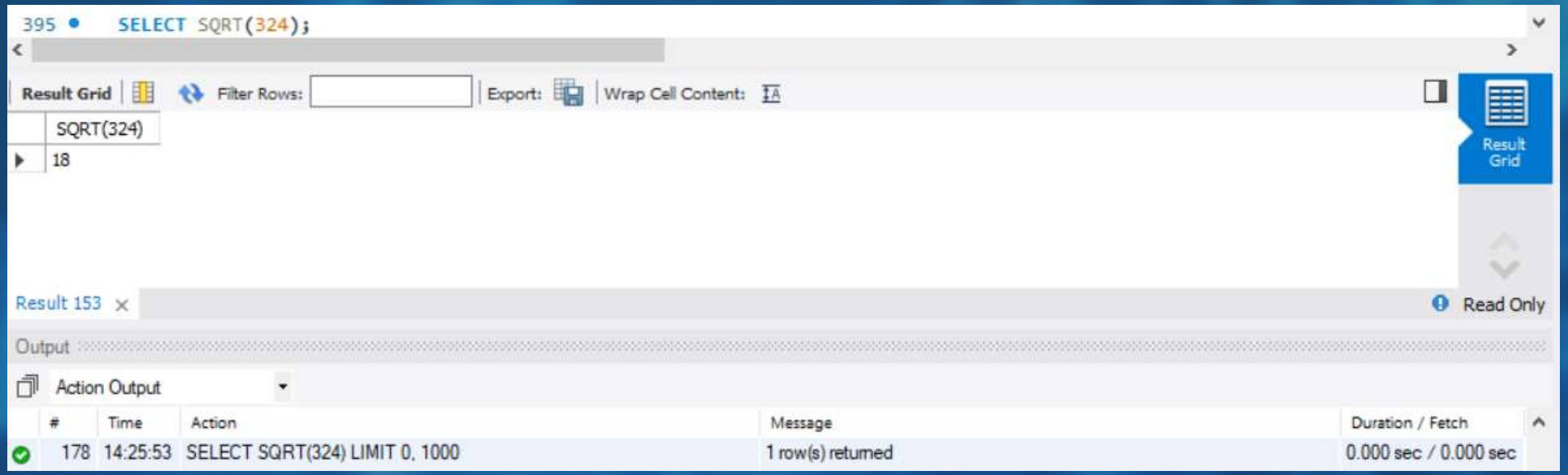
- POW –

Return the value of 8 raise to 6



- SQRT –

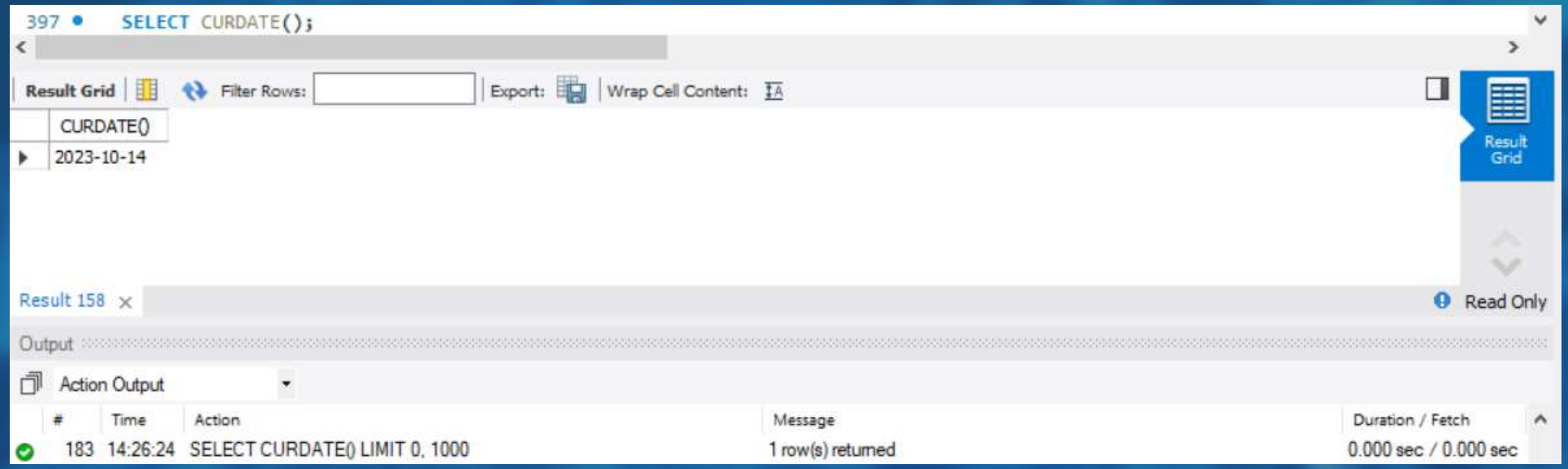
Return the square root of 324



➢Date function

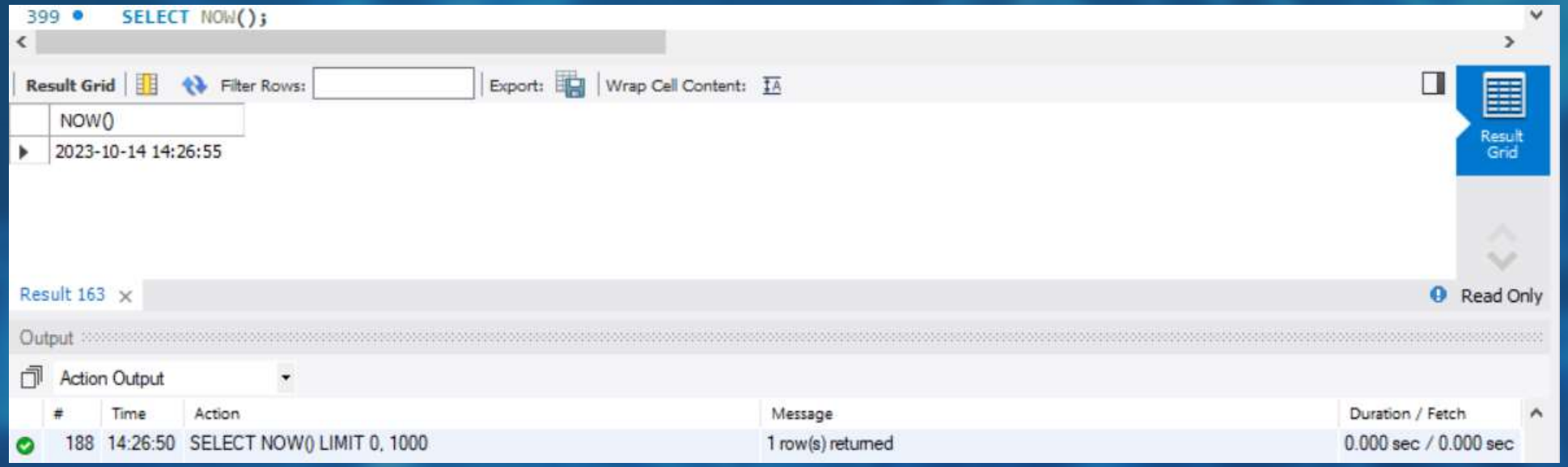
- CURDATE –

Display the current date



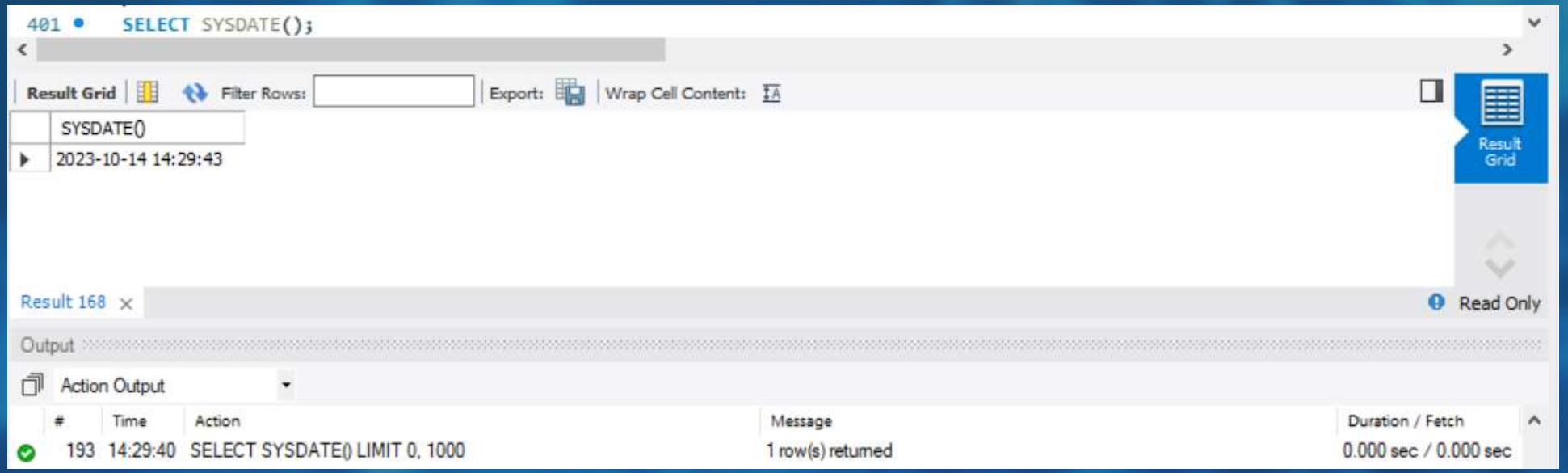
- NOW –

Display the current date along with the time



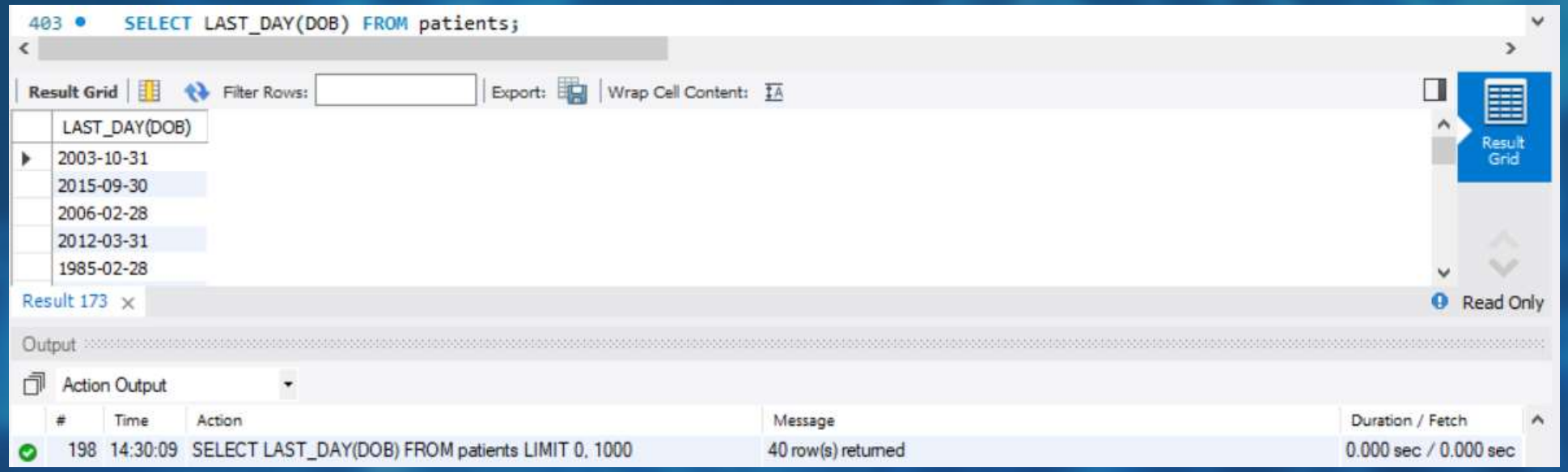
- SYSDATE –

Display the date and time of the system you are working on



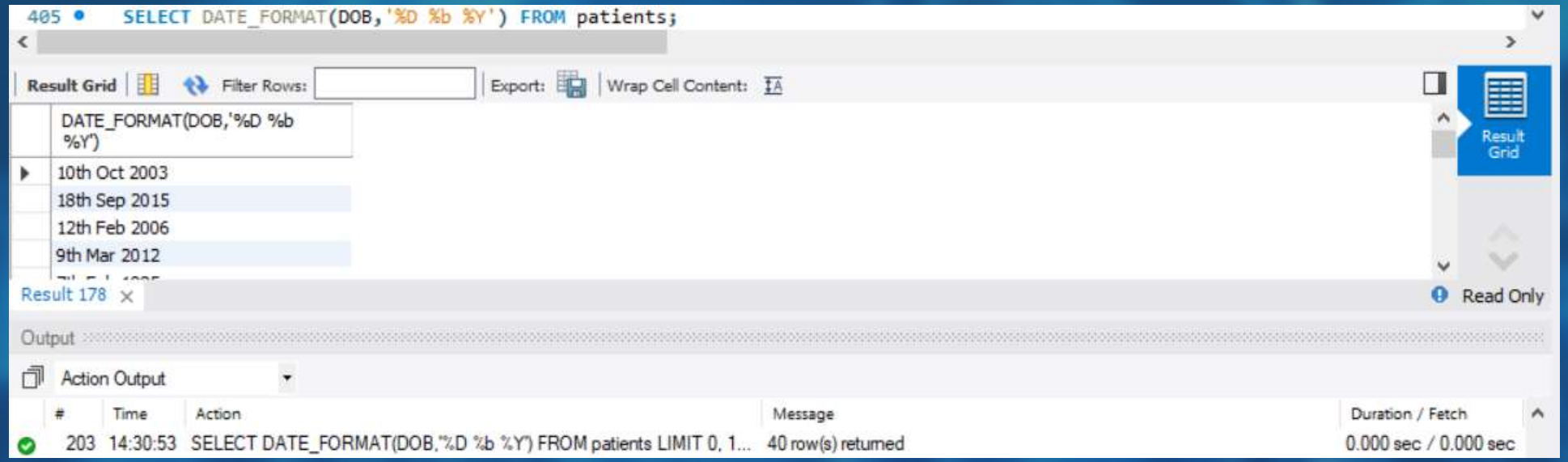
- LAST_DAY –

Display the last date of the DOB from patients table



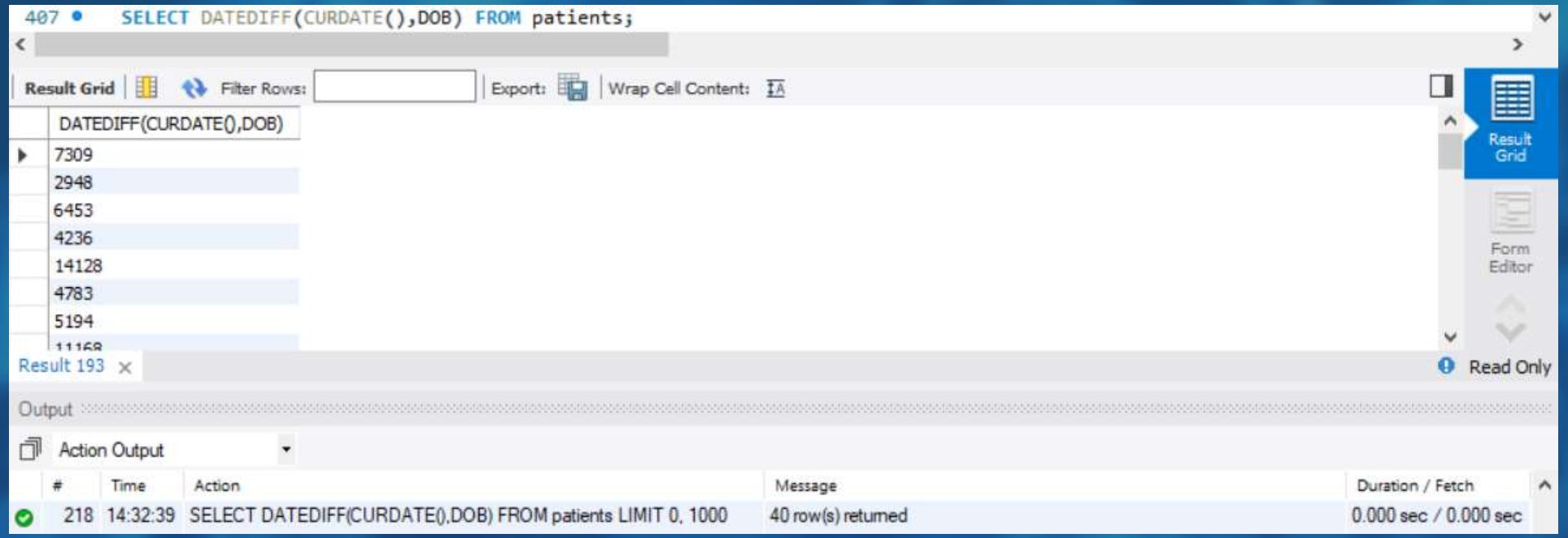
- DATE_FORMAT –

Display the DOB from patients in the format of Date followed by suffix, Abbreviated month name and Year in 4 digits



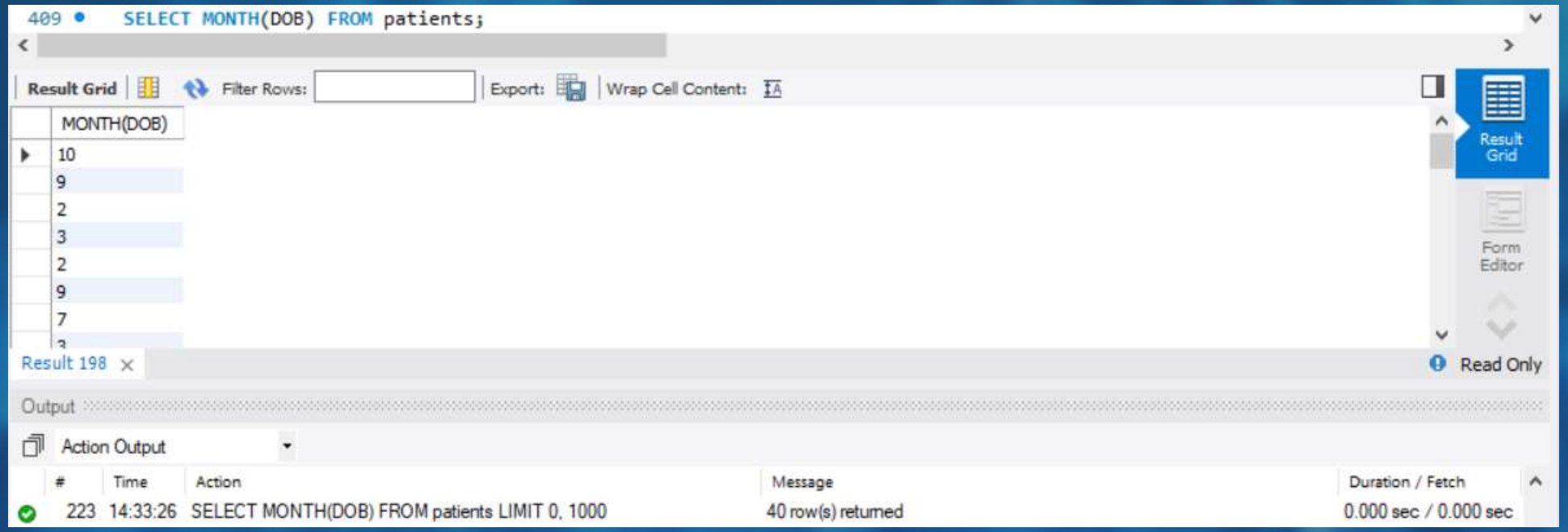
- DATEDIFF –

Display the date difference between the CURDATE() and DOB of patients table



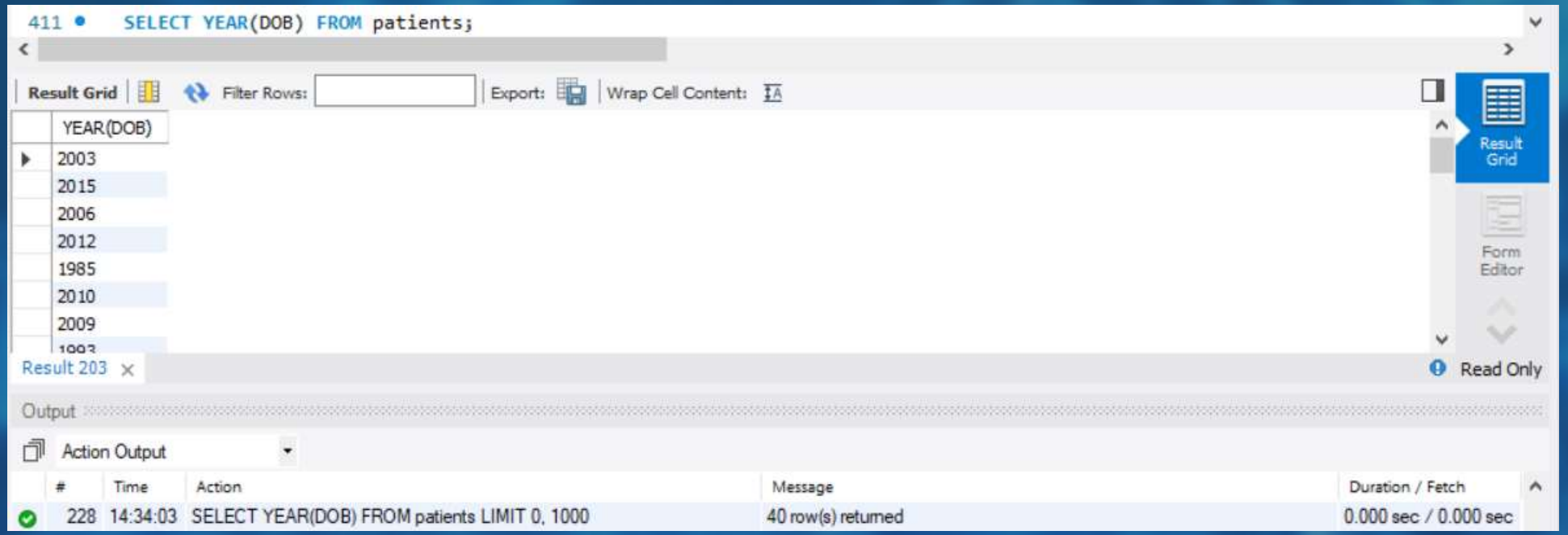
- MONTH –

Display the month of birth from patients table



- YEAR –

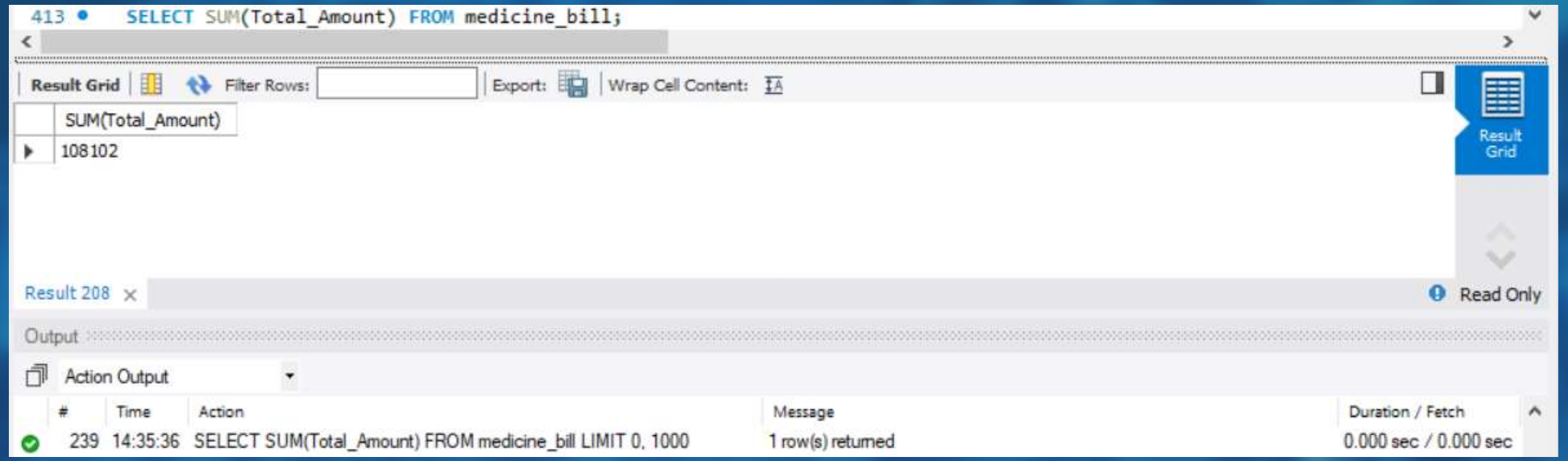
Display the year of birth from patients table



➢ Aggregate function

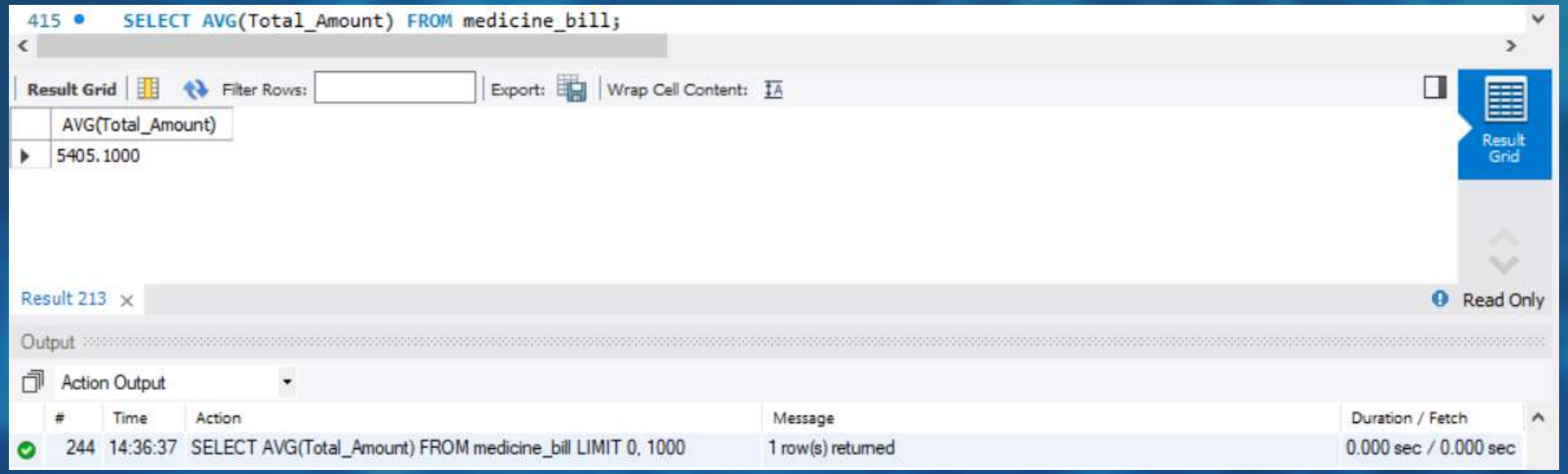
- SUM –

Display the sum of the total_amount from medicine_bill



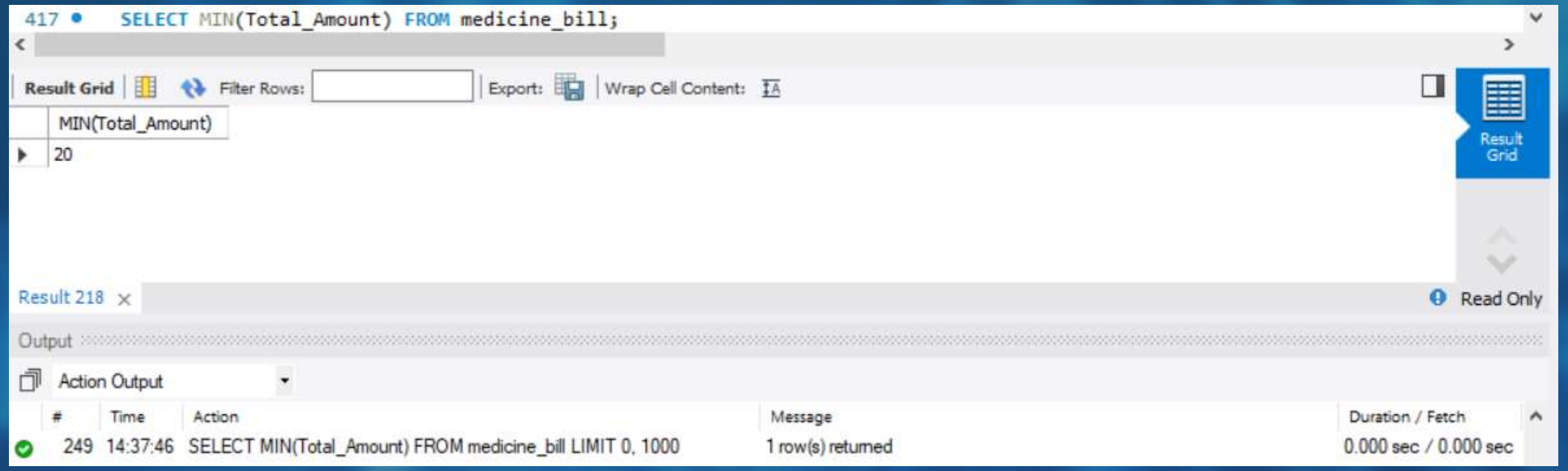
- AVG –

Display the average of the total_amount from medicine bill



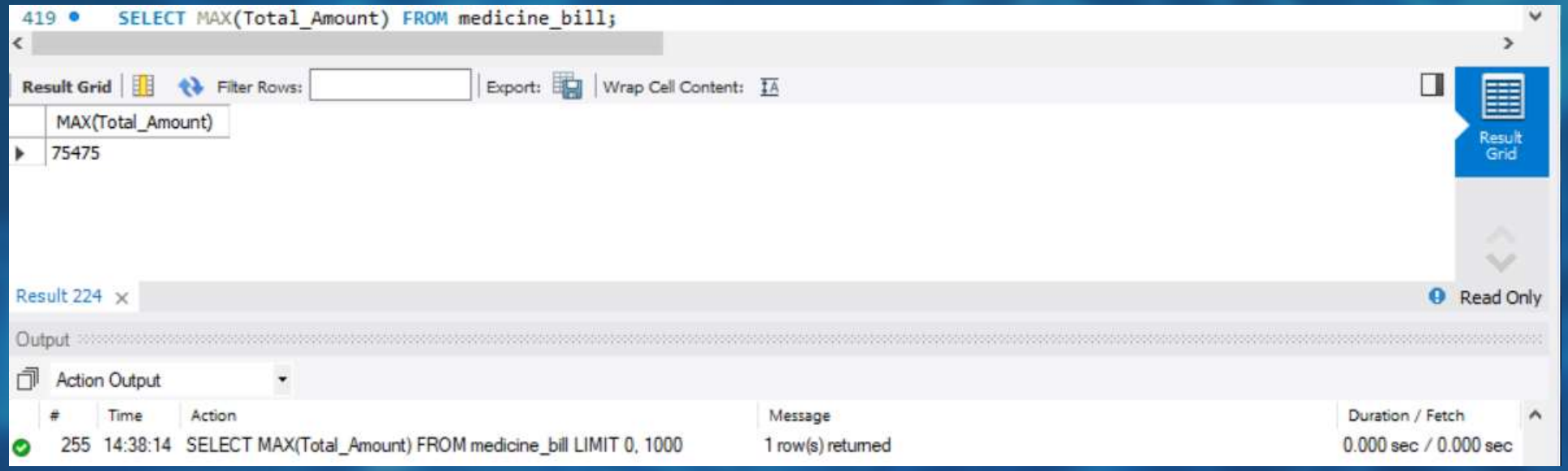
- MIN –

Display the minimum amount from the medicine_bill



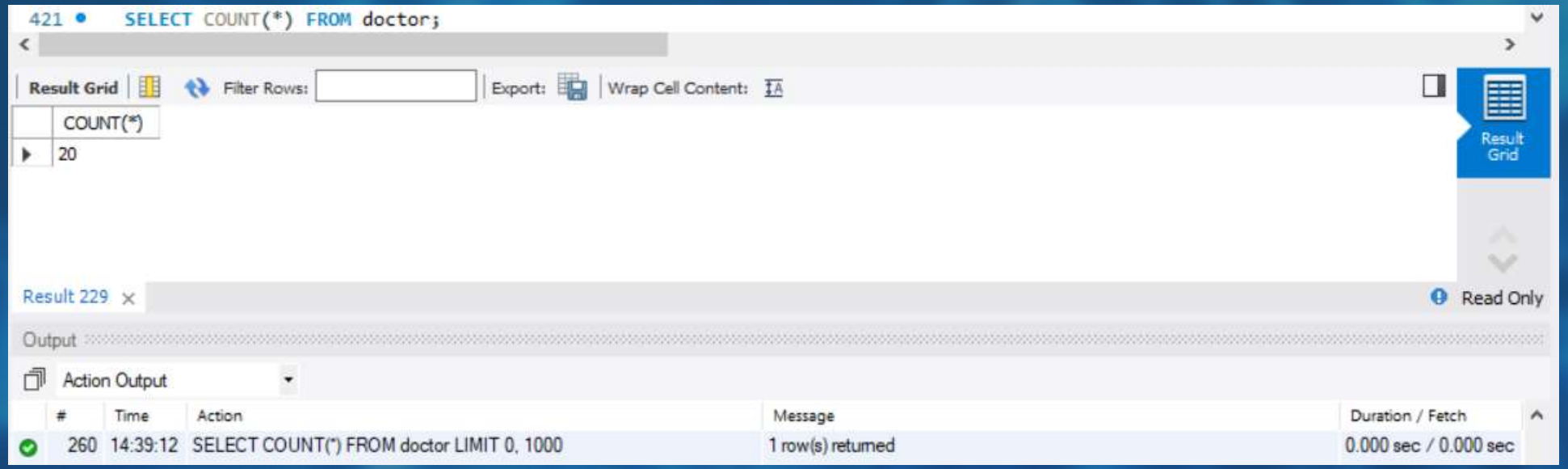
- MAX –

Display the maximum amount from the medicine_bill



- COUNT –

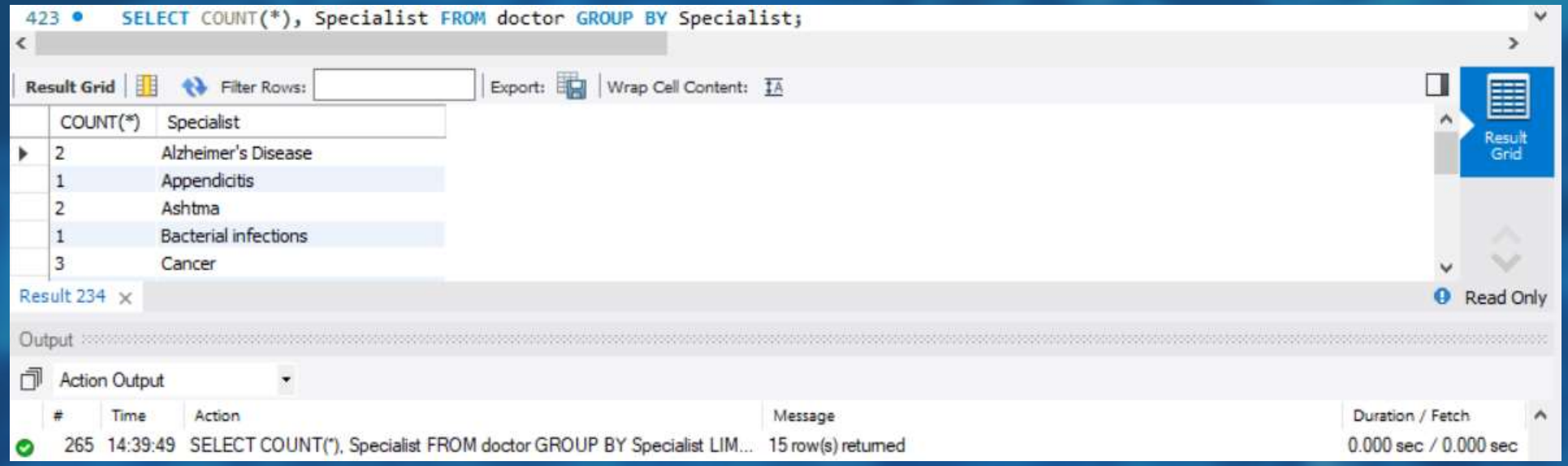
Display the count of doctors present in the hospital



➢Group by and having clause

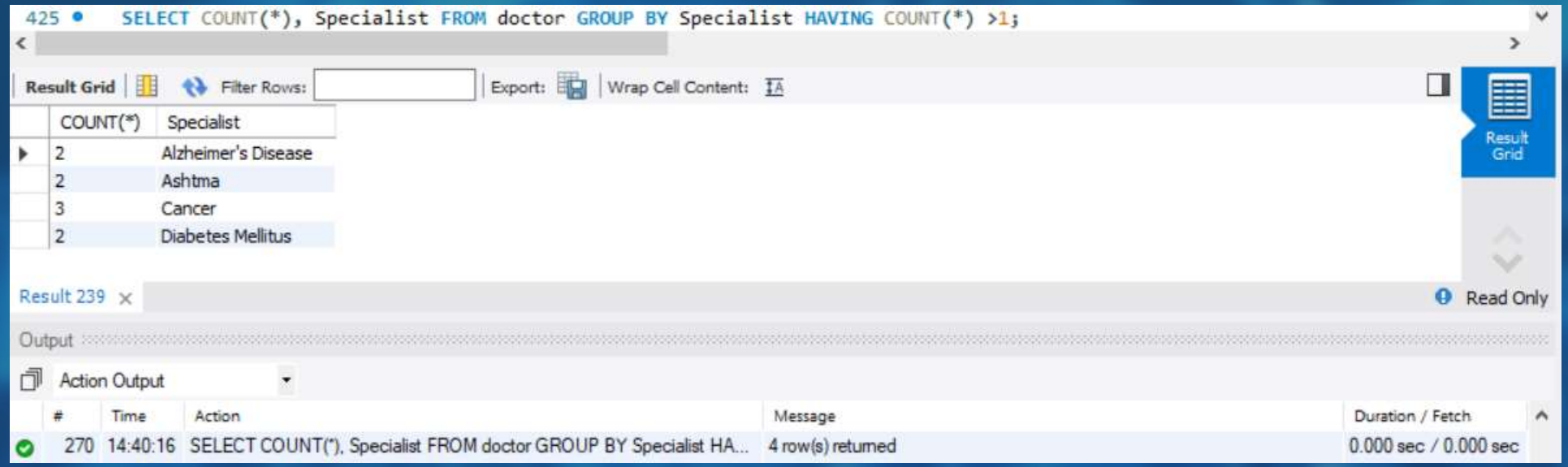
- GROUP BY –

Display specialist and count for each specialist



- GROUP BY + HAVING –

Display specialist and count for each specialist having count greater than 1



➢Order by clause

- ORDER BY (DEFAULT- ASC) –

Display details of doctors in ascending order of names

```
427 •  SELECT * FROM doctor ORDER BY D_Name;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

D_ID	D_Name	Gender	Specialist	Email	Contact
14	Aaditya Tiwari	Male	Appendicitis	aadityatiwari@yahoo.com	7348918870
11	Aditya Sawant	Male	Cancer	adityasawant@gmail.com	8951136697
7	Ankit Mishra	Male	Parkinson's Disease	ankitmishra@gmail.com	8193264303
1	Ashish Prajapati	Male	Diabetes Mellitus	ashishprajapati@gmail.com	8273576473
9	Dipisha Wagh	Female	Ashtma	dipishawagh@gmail.com	8432197925

Result Grid | Apply

doctor 244 ×

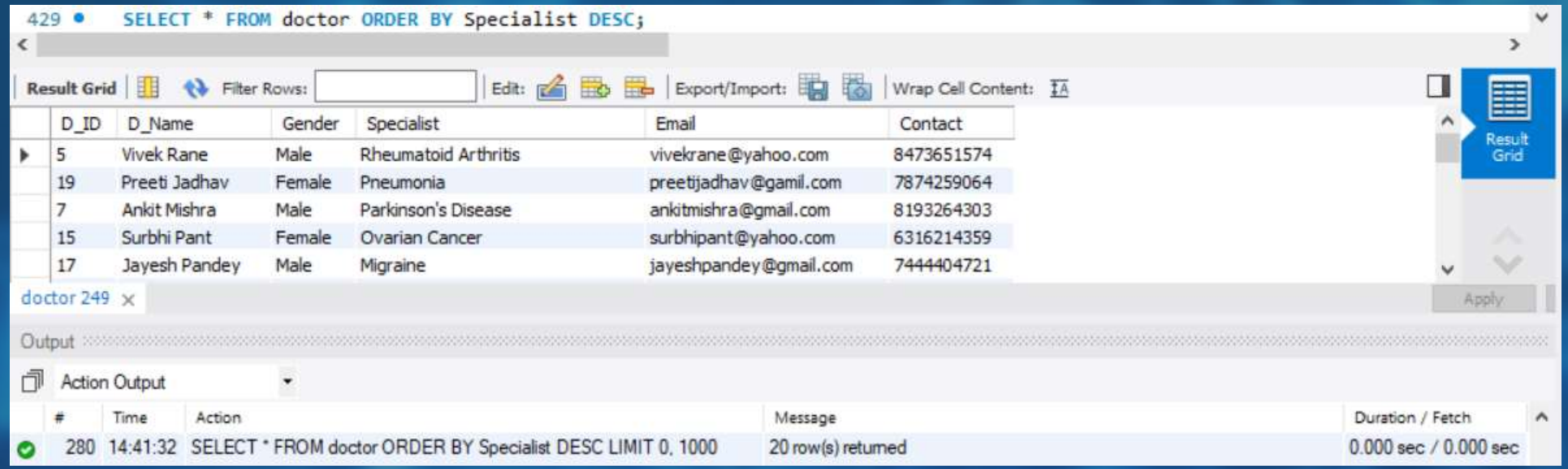
Output

Action Output

#	Time	Action	Message	Duration / Fetch
275	14:41:05	SELECT * FROM doctor ORDER BY D_Name LIMIT 0, 1000	20 row(s) returned	0.000 sec / 0.000 sec

- ORDER BY DESC–

Display details of doctors in descending order of specialist



D_ID	D_Name	Gender	Specialist	Email	Contact
5	Vivek Rane	Male	Rheumatoid Arthritis	vivekrane@yahoo.com	8473651574
19	Preeti Jadhav	Female	Pneumonia	preetijadhav@gamil.com	7874259064
7	Ankit Mishra	Male	Parkinson's Disease	ankitmishra@gmail.com	8193264303
15	Surbhi Pant	Female	Ovarian Cancer	surbhipant@yahoo.com	6316214359
17	Jayesh Pandey	Male	Migraine	jayeshpandey@gmail.com	7444404721

➢LIMIT CLAUSE

Display only 5 records of medicine_bill who paid more than 500

```
431 •  SELECT * FROM medicine_bill WHERE Total_Amount>500 LIMIT 5;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

P_ID	Med_Name	Total_Amount
106	Melphalan 5 Mg Tablet	3930
102	Exelon 1.5mg Capsule 14'S	795
111	Zepatier Elbasvir & Grazoprevir 50mg/100mg	1000
127	Epclusa 400mg 100mg Tablet, Mavyret Glecapr...	19215
112	Delafloxacin Baxdela 450mg Tablet	1952

Result Grid

medicine_bill 254 ×

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
285	14:42:08	SELECT * FROM medicine_bill WHERE Total_Amount>500 LIMIT 5	5 row(s) returned	0.000 sec / 0.000 sec

➢Union

Display the ID and Names of all patients and doctors within two columns

```
433 •   SELECT D_ID AS 'Patients and Doctors ID' , D_Name AS 'Patients and Doctors NAME'FROM doctor
434     UNION
435     SELECT P_ID, P_Name FROM patients;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Patients and Doctors ID	Patients and Doctors NAME
1	Ashish Prajapati
2	Sandeep Kadam
3	Harish Bhachav
4	Ravi Gowda
5	Vivek Rane
6	Trupti Tripathi
7	Ankit Mishra
8	Jay Khamankar

Result Grid | Form Editor | Result 259 | Read Only

Output

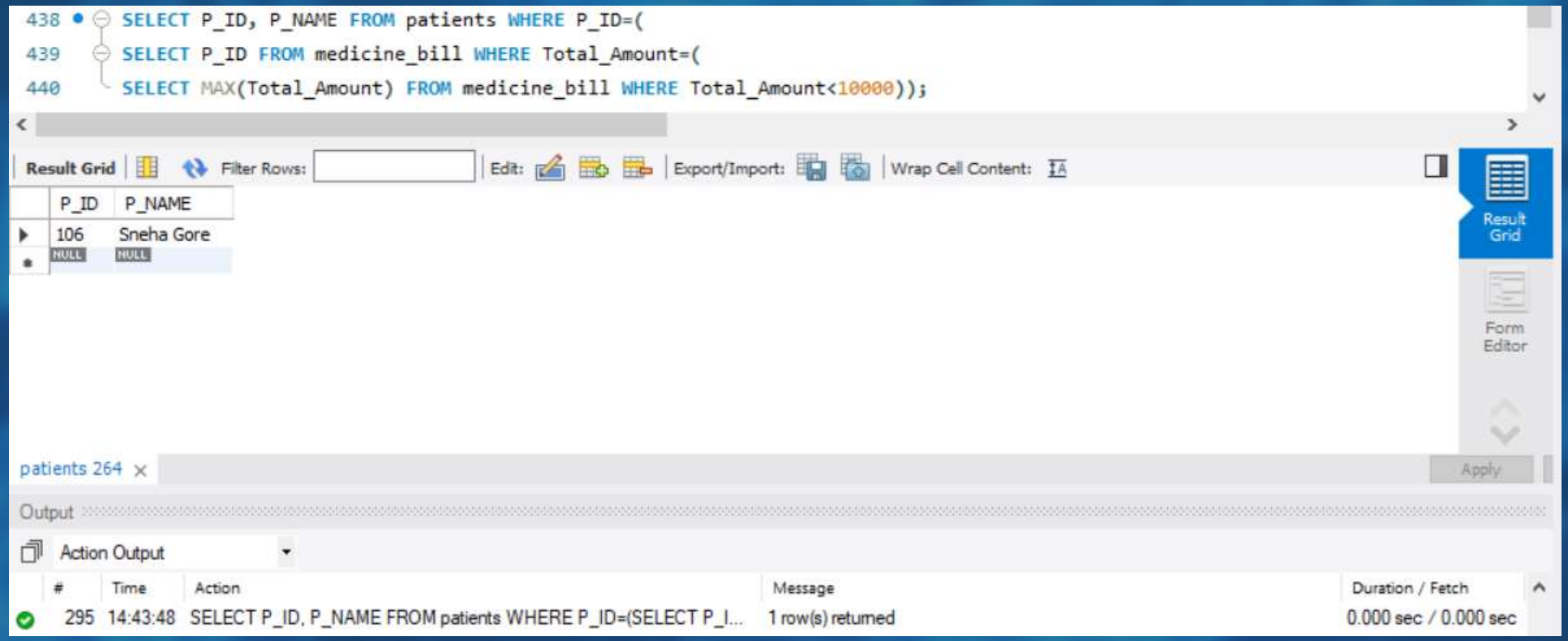
Action Output

#	Time	Action	Message	Duration / Fetch
290	14:42:39	SELECT D_ID AS 'Patients and Doctors ID' , D_Name AS 'Patients and...	60 row(s) returned	0.000 sec / 0.000 sec

➢ Sub-query

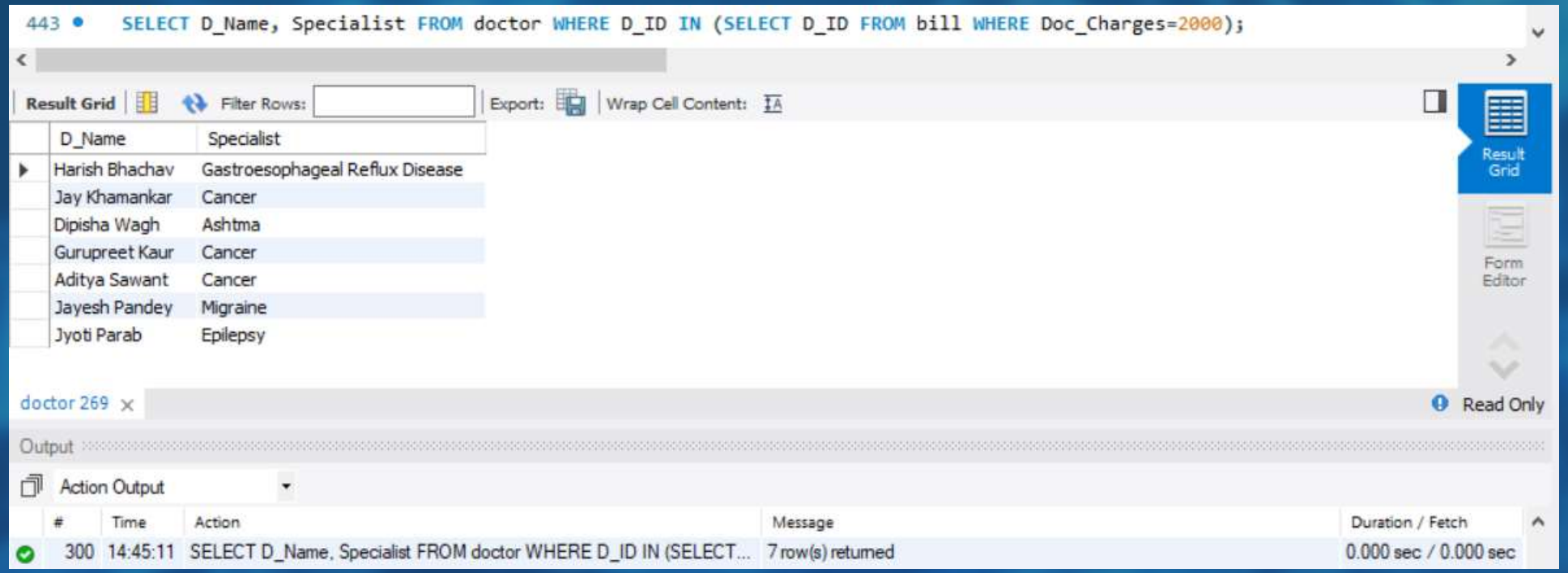
- SINGLE ROW SUB-QUERY –

Display P_ID and P_Name of patients who have paid the highest Total_Amouny within 10000 From Medicine_bill



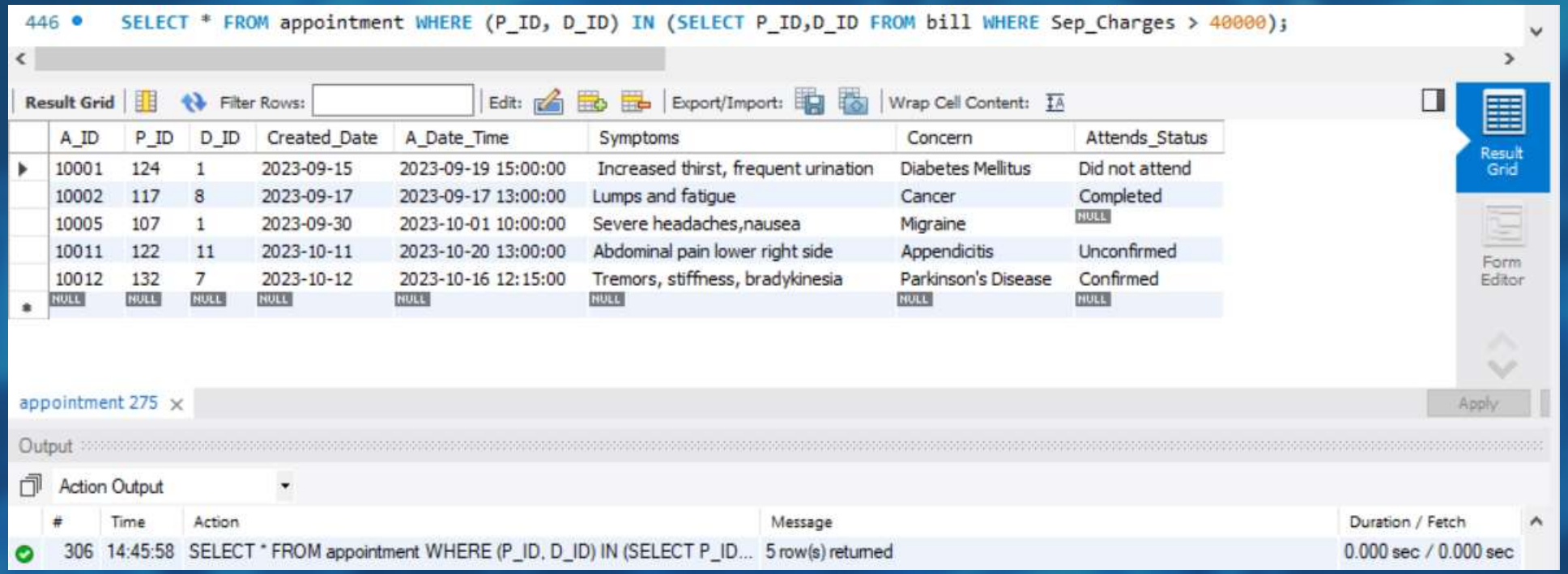
- MULTIPLE ROW SUB-QUERY –

DISPLAY THE NAME AND SPECIALIST FROM DOCTOR WHO CHARGES 2000



- MULTIPLE COLUMN SUB-QUERY –

DISPLAY THE APPOINTMENT INFO OF THE PATIENT WHO HAVE PAID MORE THAN 40000 SEP_CHARGES



Joins

- INNER JOIN (DEFAULT JOIN)–

Display the A_ID, Concern, Med_Name from appointment and medicine_bill table whose D_ID isnt't 5,15,20 USING JOIN

```
449 •  SELECT Appointment.A_ID, Appointment.Concern, Medicine_bill.Med_Name FROM appointment
450    INNER JOIN
451    Medicine_bill
452    ON
453    Appointment.P_ID = Medicine_bill.P_ID
454    WHERE Appointment.D_ID NOT IN (5,15,20);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

A_ID	Concern	Med_Name
10005	Migraine	Metformin 500 Mg Tablets
10006	Alzheimer's Disease	Zepatier Elbasvir & Grazoprevir 50mg/100mg
10009	Influenza	Tamiflu 75mg Strip Of 10 Capsules
10010	Hepatitis C	Epclusa 400mg 100mg Tablet, Mavyret Glecapr...

Result Grid | Form Editor | Read Only

Result 284

Output

Action Output

#	Time	Action	Message	Duration / Fetch
315	14:48:58	SELECT Appointment.A_ID, Appointment.Concern, Medicine_bill.Med_...	4 row(s) returned	0.000 sec / 0.000 sec

- OUTER JOIN –

Display the D_ID, Created_date and Concern from bill and appointment table using LEFT JOIN

```
459 •  SELECT Bill.D_ID, Appointment.Created_Date, Appointment.Concern FROM Bill
460    LEFT OUTER JOIN
461    Appointment
462    ON
463    Appointment.P_ID=Bill.P_ID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

D_ID	Created_Date	Concern
1	NULL	NULL
16	NULL	NULL
18	NULL	NULL
20	NULL	NULL
17	NULL	NULL
15	NULL	NULL
1	2023-09-30	Migraine
4	NULL	NULL

Result Grid | Form Editor | Read Only

Result 289

Output

Action Output

#	Time	Action	Message	Duration / Fetch
320	14:50:07	SELECT Bill.D_ID, Appointment.Created_Date, Appointment.Concern F...	40 row(s) returned	0.000 sec / 0.000 sec

Display the Concern, P_ID and P_Name from appointment and patients table using RIGHT JOIN

```
467 •  SELECT Appointment.Concern, Patients.P_ID, Patients.P_Name FROM Appointment
468    RIGHT OUTER JOIN
469    Patients
470    ON Appointment.P_ID=Patients.P_ID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Concern	P_ID	P_Name
NULL	101	Kshitija Jadhav
NULL	102	Amar Navale
NULL	103	Sai Ahire
NULL	104	Sakshi Jadhav
NULL	105	Hrishav Pandey
NULL	106	Sneha Gore
Migraine	107	Sapna Chandan
NULL	108	Kartik Singh

Result Grid | Form Editor | Result 294 | Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
325	14:50:53	SELECT Appointment.Concern, Patients.P_ID, Patients.P_Name FROM...	40 row(s) returned	0.000 sec / 0.000 sec

- CROSS JOIN –

Display the A_ID, P_ID and Med_type from medicine and appointment table using cross join

```
473 •  SELECT Appointment.A_ID, Appointment.P_ID, Medicine.M_Type FROM Medicine
474    CROSS JOIN
475    Appointment
476    ON
477    Appointment.Concern=Medicine.M_Type;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

A_ID	P_ID	M_Type
10001	124	Diabetes Mellitus
10001	124	Diabetes Mellitus
10001	124	Diabetes Mellitus
10002	117	Cancer
10002	117	Cancer
10011	122	Appendicitis
10006	111	Alzheimer's Disease
10007	120	Alzheimer's Disease

Result Grid | Form Editor | Result 299 | Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
330	14:52:30	SELECT Appointment.A_ID, Appointment.P_ID, Medicine.M_Type FRO...	23 row(s) returned	0.000 sec / 0.000 sec

THANK YOU