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Batch: Data Engineering

Date:22/01/2024

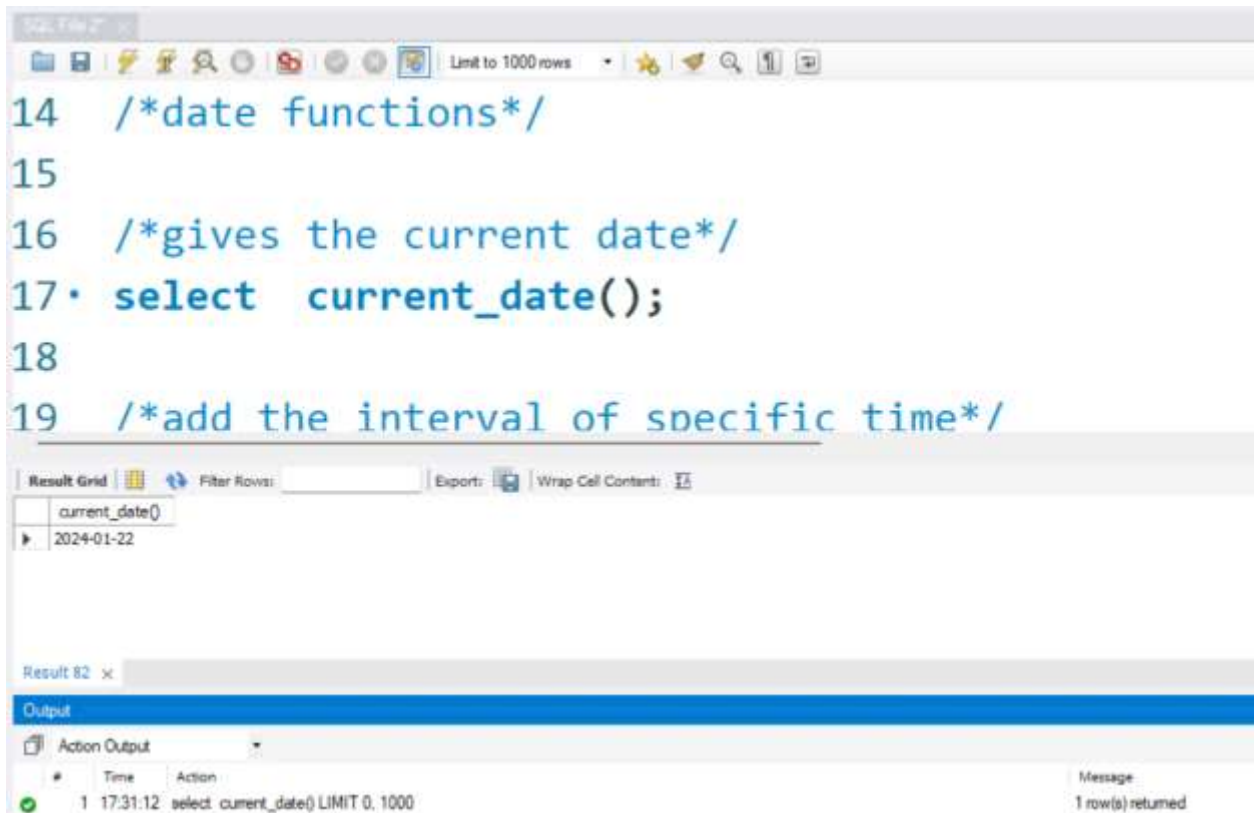
Topic: MYSQL(Date,Numeric Functions)

Solution:

1. MYSQL:

Date:

Current date:



The screenshot displays a MySQL IDE interface. The top section shows a SQL editor with the following code:

```
14  /*date functions*/  
15  
16  /*gives the current date*/  
17  select  current_date();  
18  
19  /*add the interval of specific time*/
```

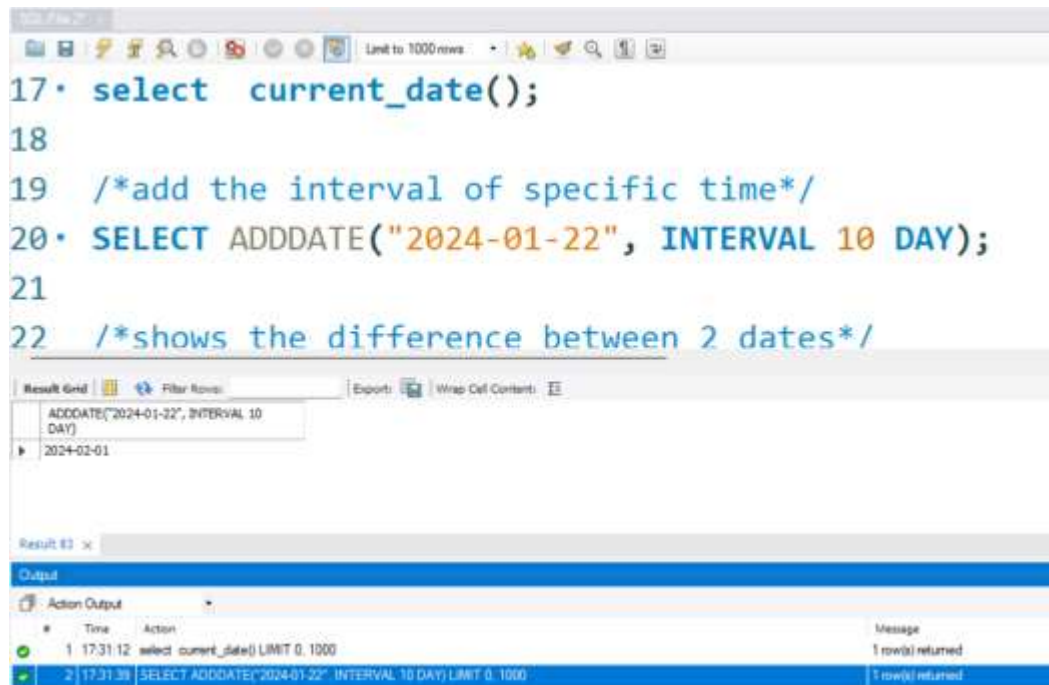
Below the editor, the 'Result Grid' shows the output of the query:

current_date()
2024-01-22

The bottom section of the IDE shows the 'Output' pane with a table of execution details:

#	Time	Action	Message
1	17:31:12	select current_date() LIMIT 0, 1000	1 row(s) returned

ADD DATE:



```
17• select current_date();
18
19 /*add the interval of specific time*/
20• SELECT ADDDATE("2024-01-22", INTERVAL 10 DAY);
21
22 /*shows the difference between 2 dates*/
```

Result Grid

ADDDATE("2024-01-22", INTERVAL 10 DAY)
2024-02-01

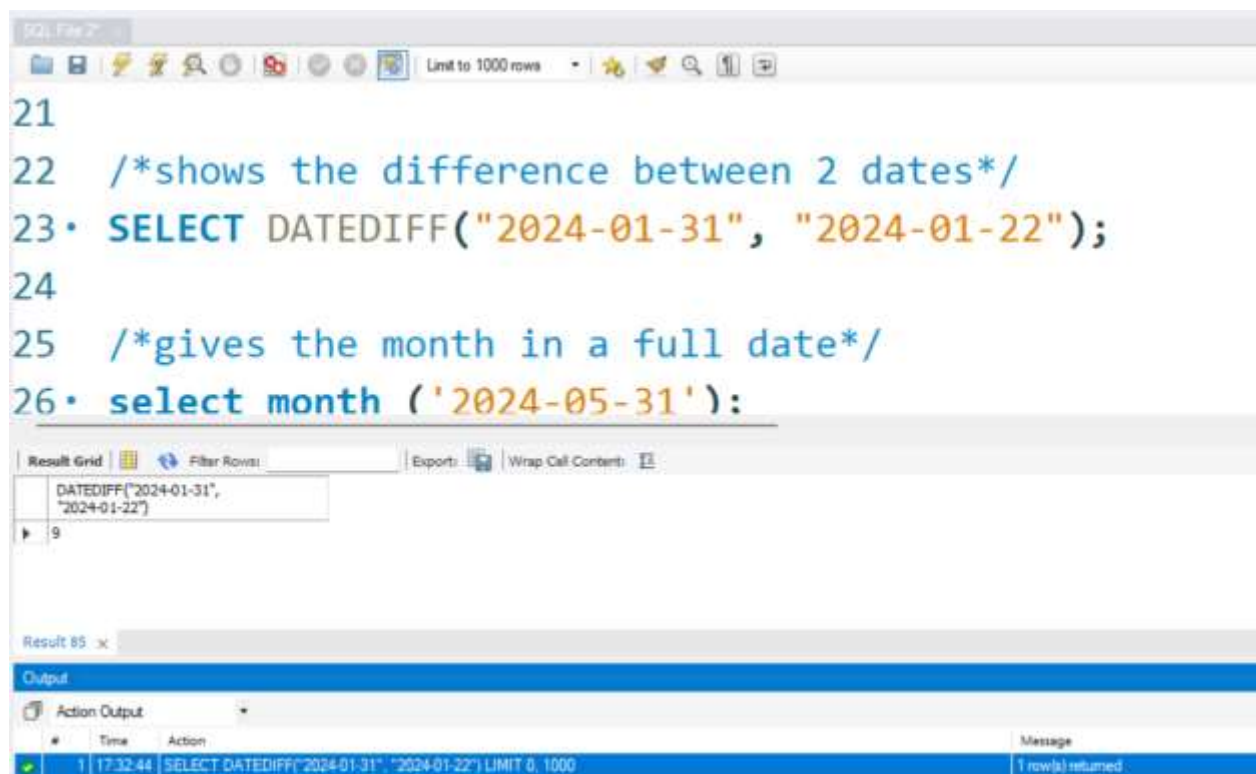
Result 83 x

Output

Action Output

#	Time	Action	Message
1	17:31:12	select current_date() LIMIT 0, 1000	1 row(s) returned
2	17:31:39	SELECT ADDDATE("2024-01-22", INTERVAL 10 DAY) LIMIT 0, 1000	1 row(s) returned

DATE DIFF:



```
21
22 /*shows the difference between 2 dates*/
23• SELECT DATEDIFF("2024-01-31", "2024-01-22");
24
25 /*gives the month in a full date*/
26• select month ('2024-05-31');
```

Result Grid

DATEDIFF("2024-01-31", "2024-01-22")
9

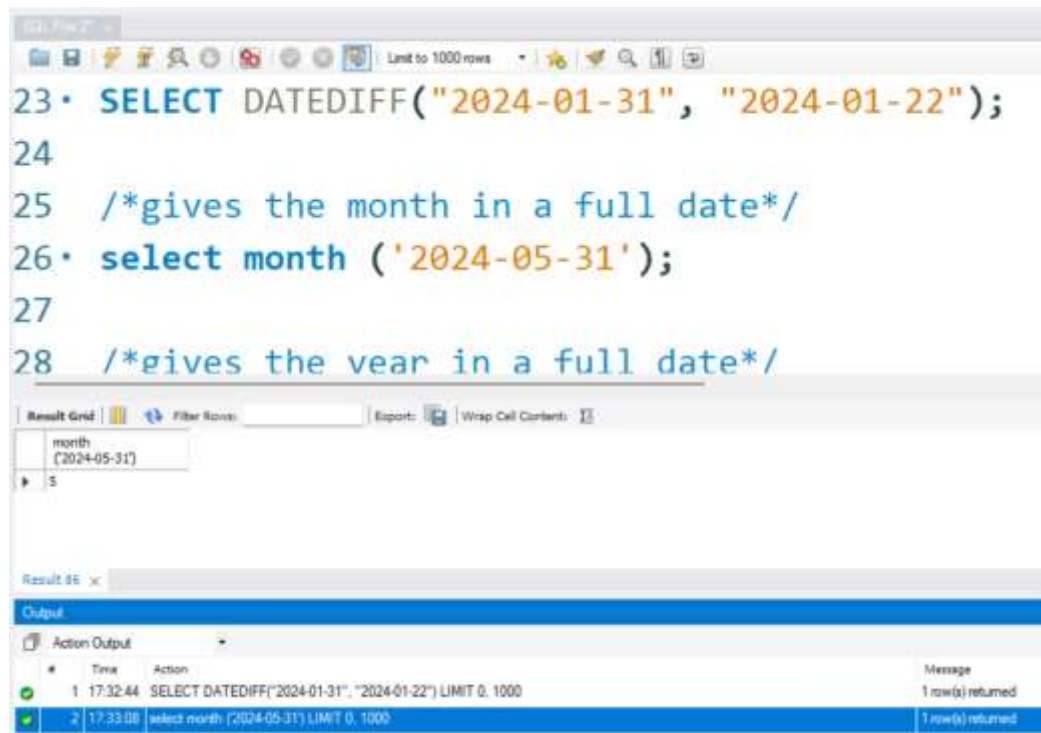
Result 85 x

Output

Action Output

#	Time	Action	Message
1	17:32:44	SELECT DATEDIFF("2024-01-31", "2024-01-22") LIMIT 0, 1000	1 row(s) returned

MONTH:



SQL File 2

```
23 • SELECT DATEDIFF("2024-01-31", "2024-01-22");
24
25 /*gives the month in a full date*/
26 • select month ('2024-05-31');
27
28 /*gives the year in a full date*/
```

Result Grid

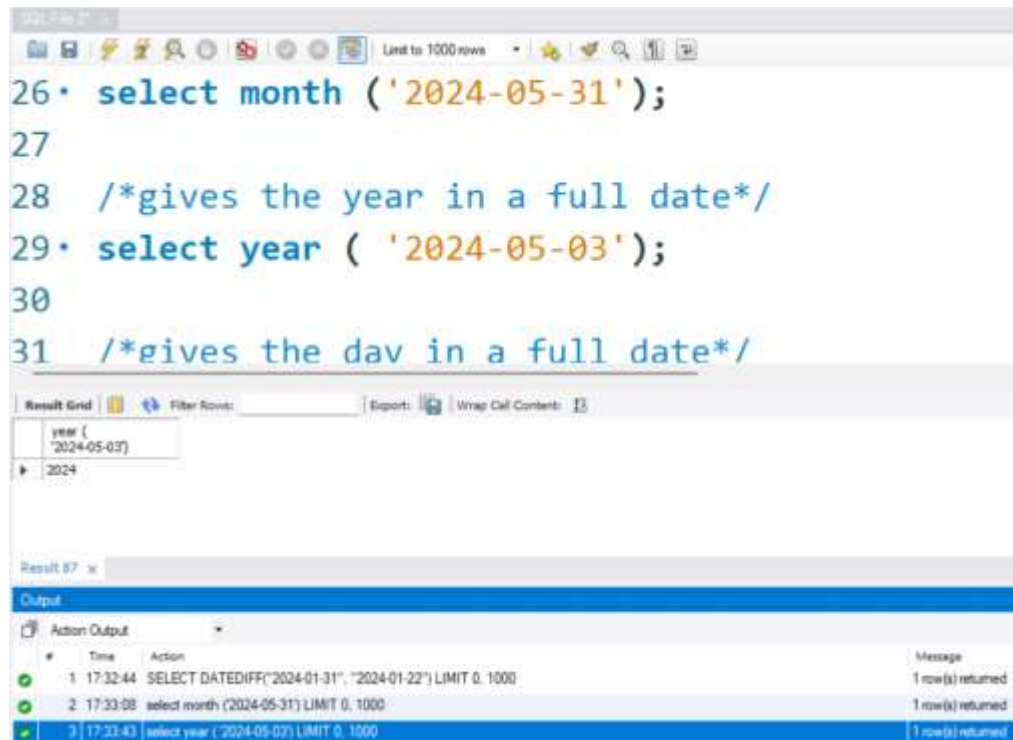
month
5

Result 86

Output

#	Time	Action	Message
1	17:32:44	SELECT DATEDIFF("2024-01-31", "2024-01-22") LIMIT 0, 1000	1 row(s) returned
2	17:33:08	select month ('2024-05-31') LIMIT 0, 1000	1 row(s) returned

YEAR:



SQL File 2

```
26 • select month ('2024-05-31');
27
28 /*gives the year in a full date*/
29 • select year ( '2024-05-03');
30
31 /*gives the day in a full date*/
```

Result Grid

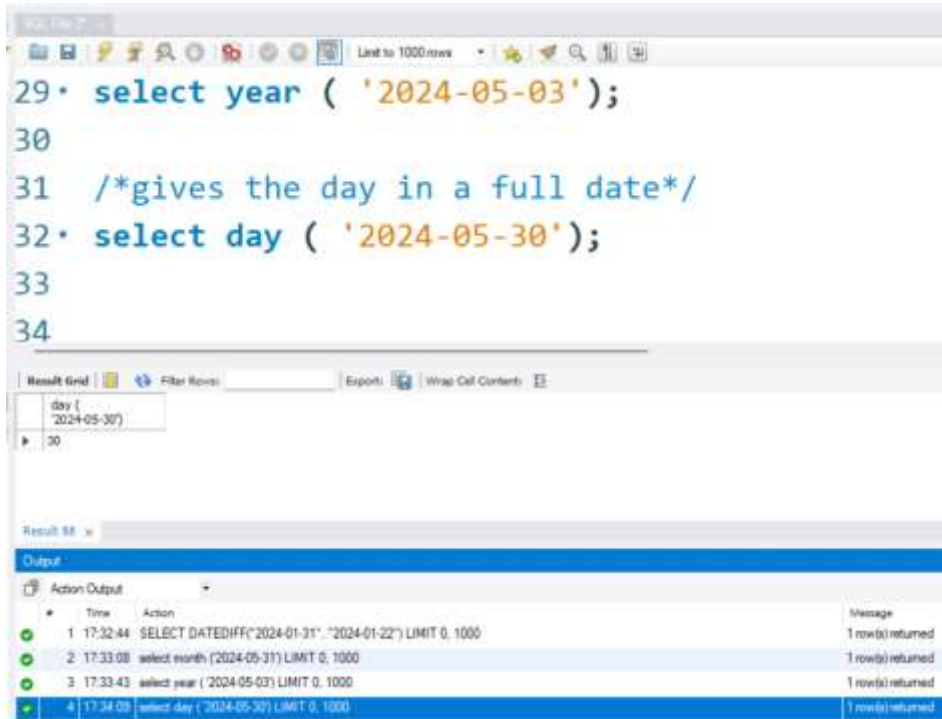
year
2024

Result 87

Output

#	Time	Action	Message
1	17:32:44	SELECT DATEDIFF("2024-01-31", "2024-01-22") LIMIT 0, 1000	1 row(s) returned
2	17:33:08	select month ('2024-05-31') LIMIT 0, 1000	1 row(s) returned
3	17:33:43	select year ('2024-05-03') LIMIT 0, 1000	1 row(s) returned

DAY:



```
29 • select year ( '2024-05-03');
30
31 /*gives the day in a full date*/
32 • select day ( '2024-05-30');
33
34
```

Result Grid

day ('2024-05-30')
30

Result 88

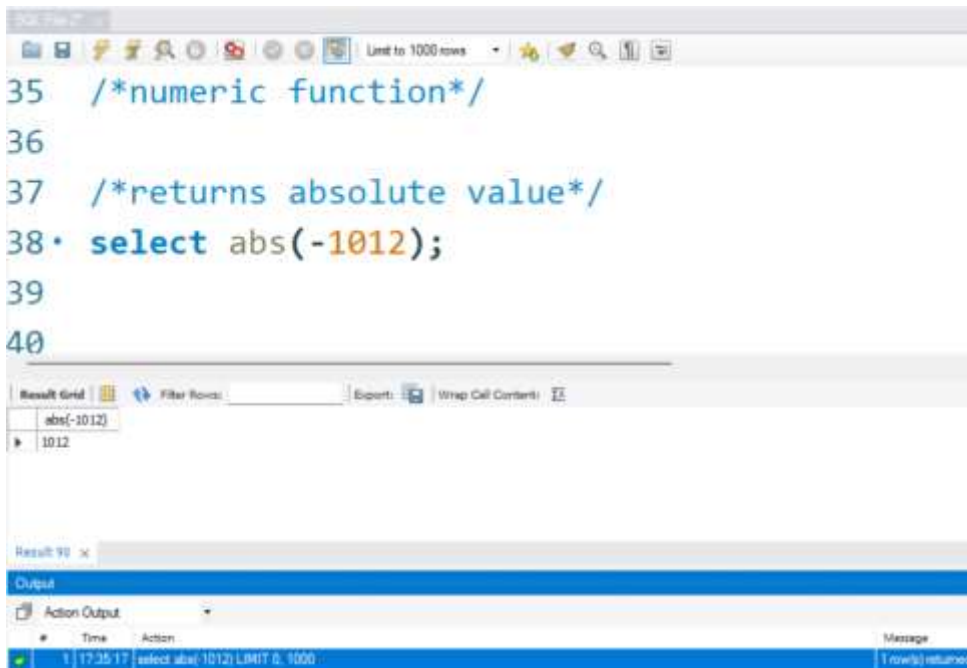
Output

Action Output

#	Time	Action	Message
1	17:32:44	SELECT DATEDIFF("2024-01-31", "2024-01-22") LIMIT 0, 1000	1 row(s) returned
2	17:33:08	select month (2024-05-31) LIMIT 0, 1000	1 row(s) returned
3	17:33:43	select year ('2024-05-03') LIMIT 0, 1000	1 row(s) returned
4	17:34:09	select day ('2024-05-30') LIMIT 0, 1000	1 row(s) returned

NUMERIC:

ABS:



```
35 /*numeric function*/
36
37 /*returns absolute value*/
38 • select abs(-1012);
39
40
```

Result Grid

abs(-1012)
1012

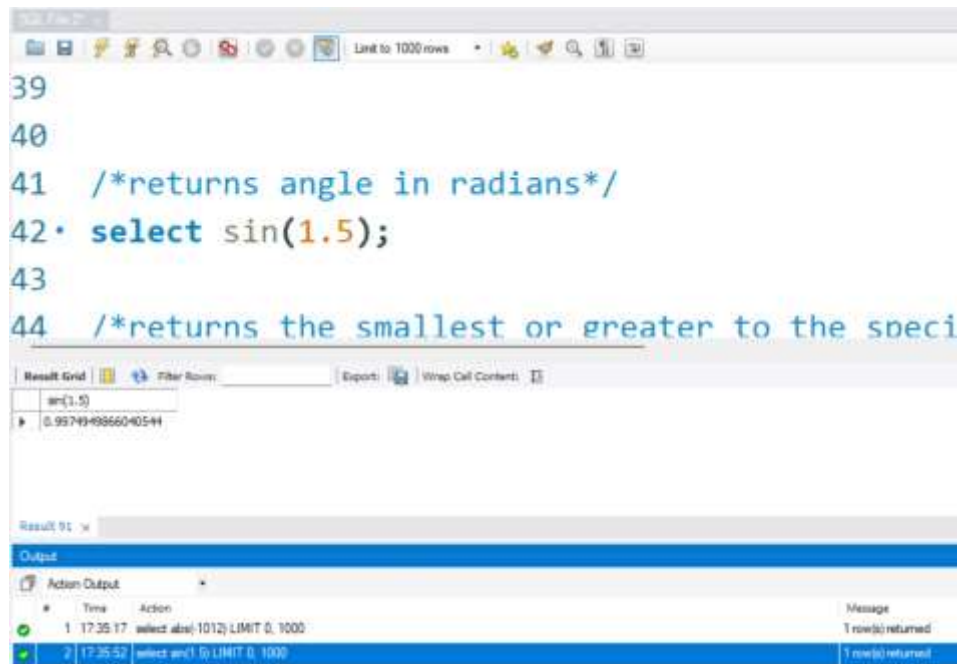
Result 90

Output

Action Output

#	Time	Action	Message
1	17:35:17	select abs(-1012) LIMIT 0, 1000	1 row(s) returned

SIN:



The screenshot shows the SQL Developer interface. The top toolbar includes icons for file operations, search, and execution, along with a 'Limit to 1000 rows' dropdown. The SQL Editor contains the following code:

```
39  
40  
41 /*returns angle in radians*/  
42 • select sin(1.5);  
43  
44 /*returns the smallest or greater to the speci
```

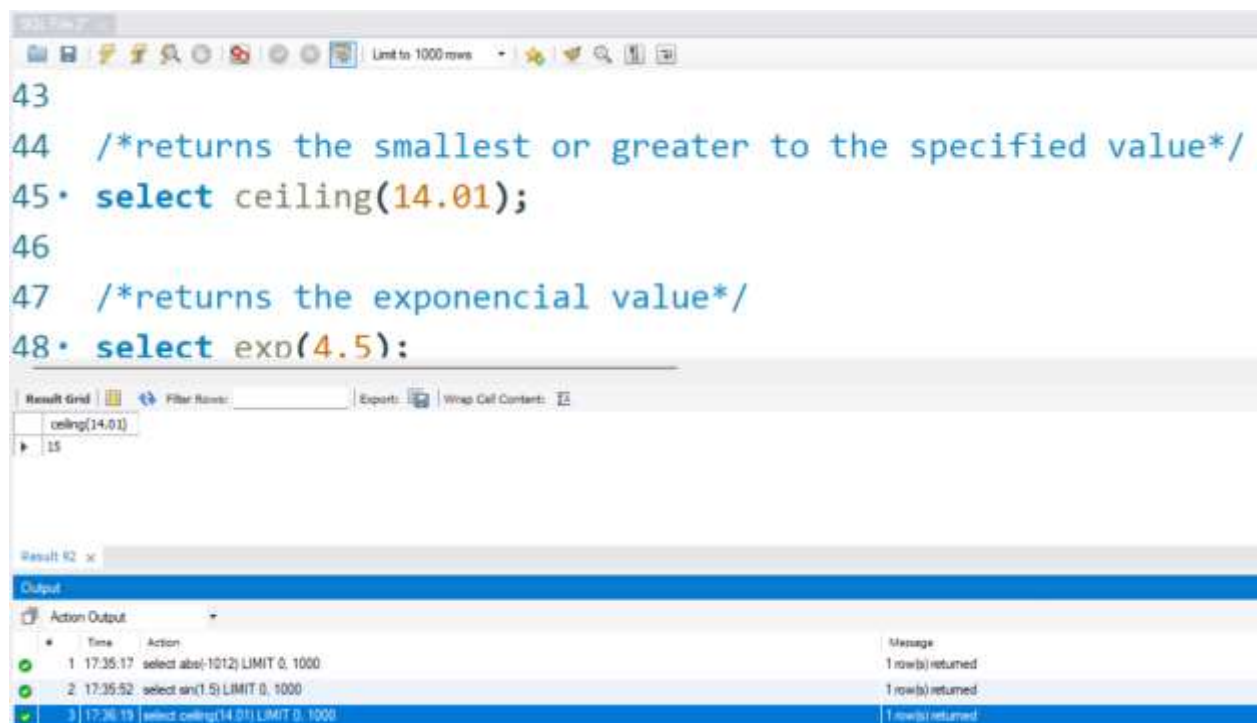
Below the editor, the 'Result Grid' shows the output of the query:

SIN(1.5)
0.957794949966040544

The 'Output' pane at the bottom shows the 'Action Output' table:

#	Time	Action	Message
1	17:35:17	select abs(-1012) LIMIT 0, 1000	1 row(s) returned
2	17:35:52	select sin(1.5) LIMIT 0, 1000	1 row(s) returned

CEILING:



The screenshot shows the SQL Developer interface. The top toolbar includes icons for file operations, search, and execution, along with a 'Limit to 1000 rows' dropdown. The SQL Editor contains the following code:

```
43  
44 /*returns the smallest or greater to the specified value*/  
45 • select ceiling(14.01);  
46  
47 /*returns the exponential value*/  
48 • select exp(4.5);
```

Below the editor, the 'Result Grid' shows the output of the query:

CEILING(14.01)
15

The 'Output' pane at the bottom shows the 'Action Output' table:

#	Time	Action	Message
1	17:35:17	select abs(-1012) LIMIT 0, 1000	1 row(s) returned
2	17:35:52	select sin(1.5) LIMIT 0, 1000	1 row(s) returned
3	17:36:19	select ceiling(14.01) LIMIT 0, 1000	1 row(s) returned

EXP:

The screenshot shows a SQL Developer window with the following SQL code:

```
45 • select ceiling(14.01);
46
47 /*returns the exponencial value*/
48 • select exp(4.5);
49
50 /*gives the absolute values*/
```

The 'Result Grid' shows the result of the `exp(4.5)` query:

exp(4.5)
90.01713130052181

The 'Output' pane shows the action log:

#	Time	Action	Message
1	17:36:48	select exp(4.5) LIMIT 0, 1000	1 row(s) returned

FLOOR:

The screenshot shows a SQL Developer window with the following SQL code:

```
48 • select exp(4.5);
49
50 /*gives the absolute values*/
51 • select floor(14.75);
52
53 /*return logarithmic value*/
```

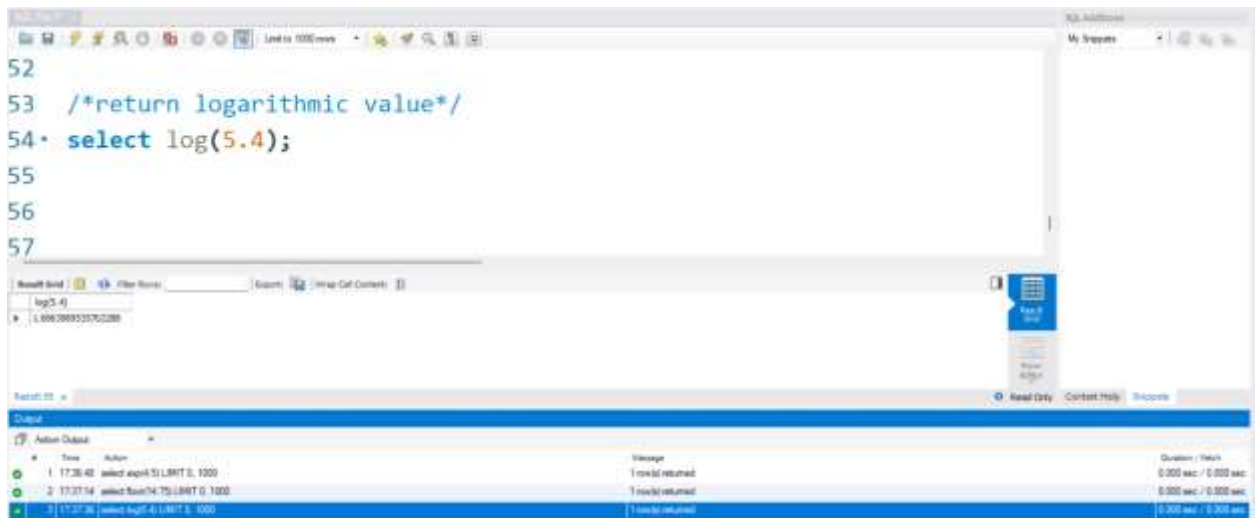
The 'Result Grid' shows the result of the `floor(14.75)` query:

floor(14.75)
14

The 'Output' pane shows the action log:

#	Time	Action	Message
1	17:36:48	select exp(4.5) LIMIT 0, 1000	1 row(s) returned
2	17:37:14	select floor(14.75) LIMIT 0, 1000	1 row(s) returned

LOG:



The screenshot shows a SQL IDE window with a query editor and a results/output pane. The query editor contains the following SQL code:

```
52  
53 /*return logarithmic value*/  
54 select log(5.4);  
55  
56  
57
```

The results pane shows the output of the query:

log(5.4)
1.6863869535702289

The output pane shows the execution log:

#	Time	Action	Message	Duration / Yield
1	17:38:40	select sql(5) LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
2	17:37:54	select sql(74.75) LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
3	17:37:36	select sql(5.4) LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec