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Batch: Data Engineering

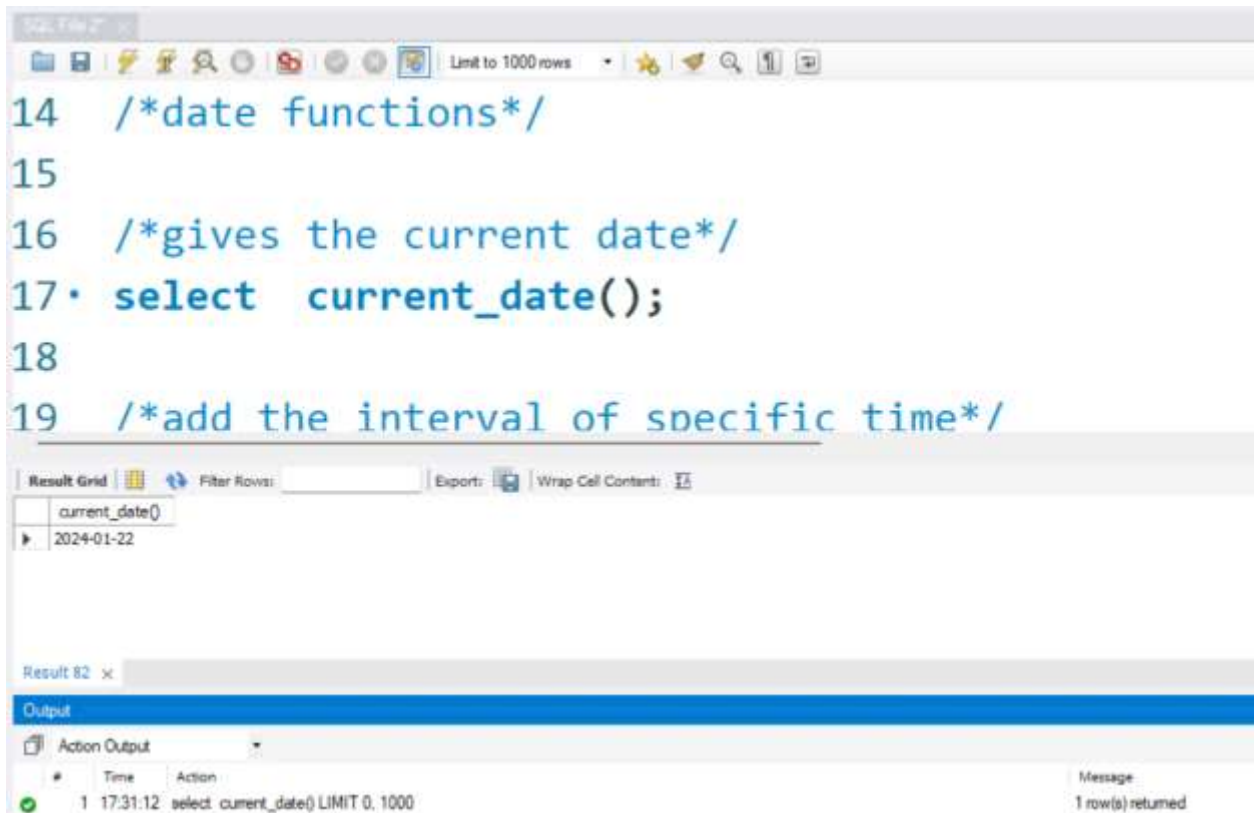**Date:22/01/2024**

Topic: MYSQL(Date,Numeric Functions)

Solution:

1. **MYSQL:**

Date:

Current date:

ADD DATE:


```sql
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*/
```
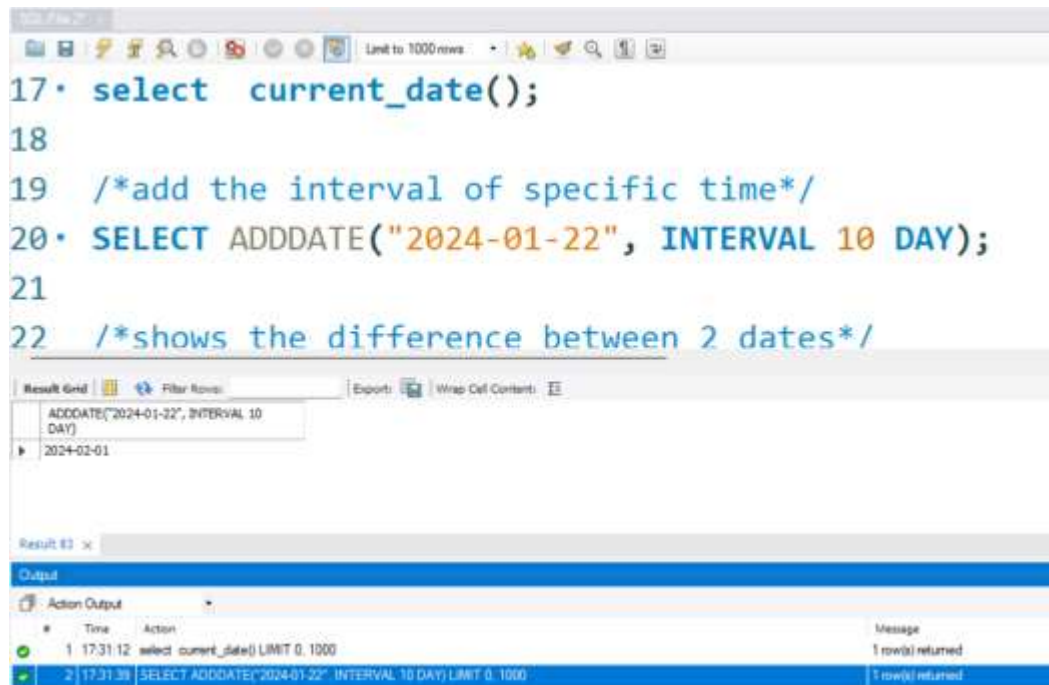
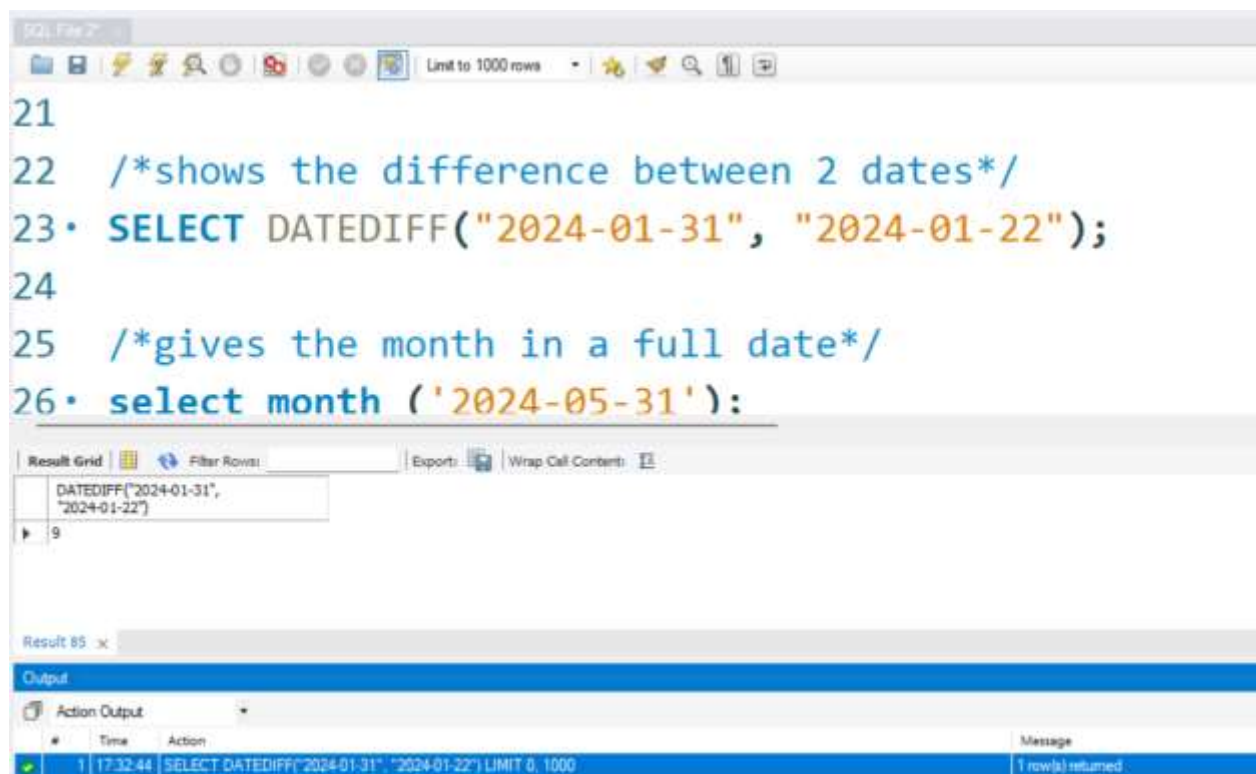| ADDDATE("2024-01-22", INTERVAL 10 DAY) |
| --- |
| ► 2024-02-01 |

Result 83 ×

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:


```sql
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'):
```

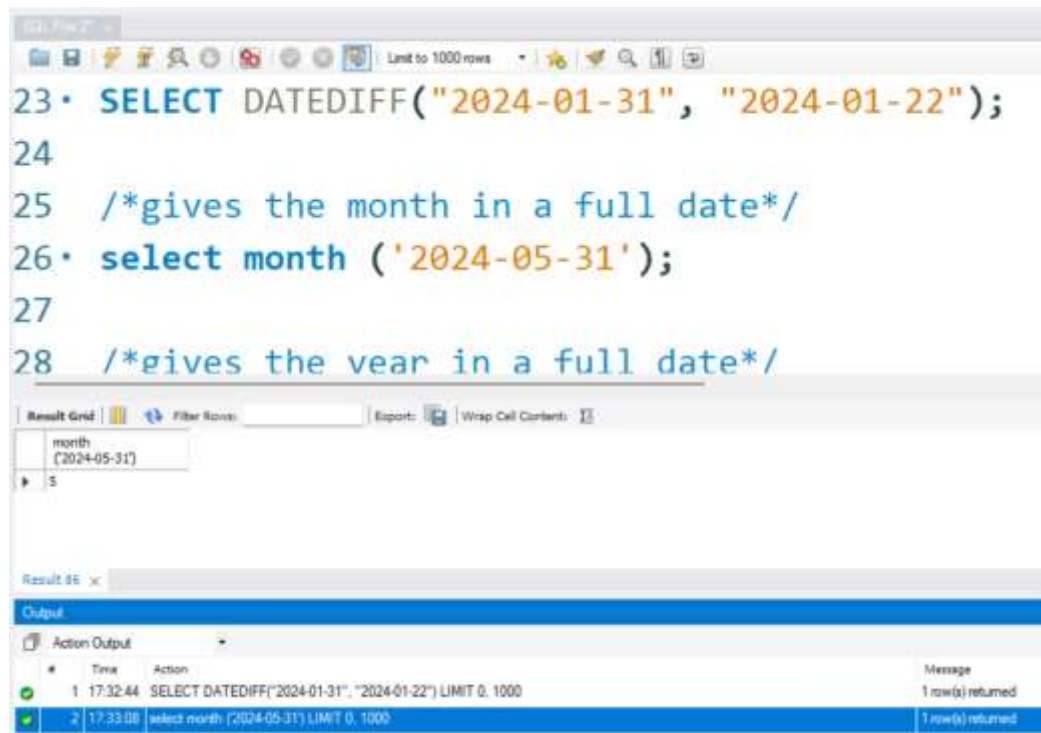| DATEDIFF("2024-01-31", "2024-01-22") |
| --- |
| ► 9 |

Result 85 ×

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:

```
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*/
```
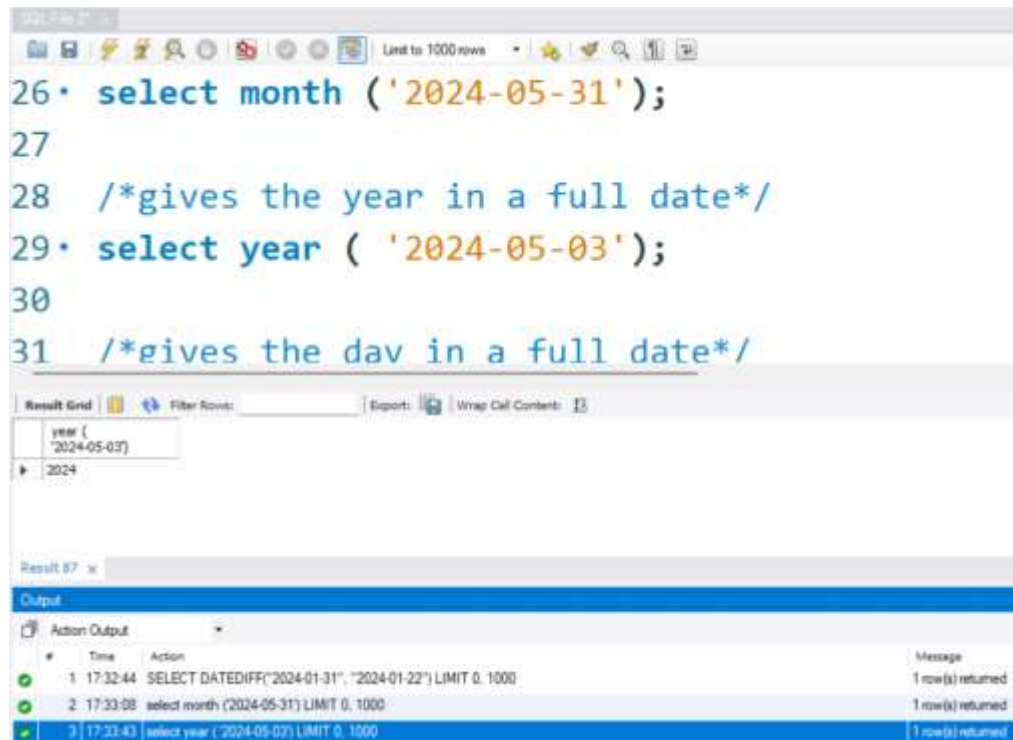
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

month ('2024-05-31')
► 5

Result 86 ×

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

YEAR:

```
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*/
```
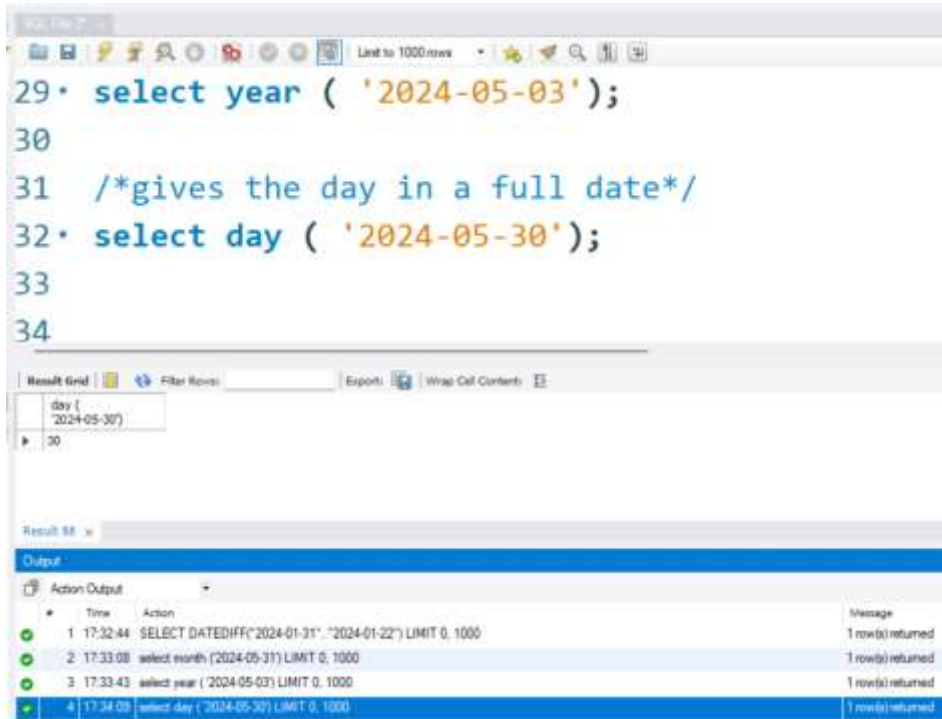
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

year ('2024-05-03')
► 2024

Result 87 ×

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

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 | Filter Rows: | Export: | Wrap Cell Content:
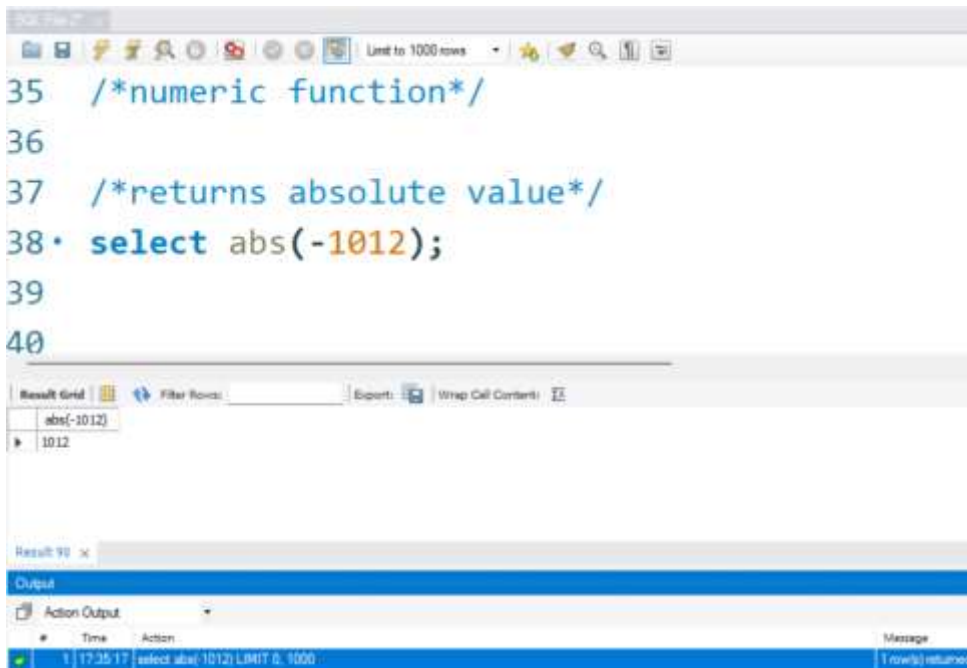
day ('2024-05-30')
▶ 30

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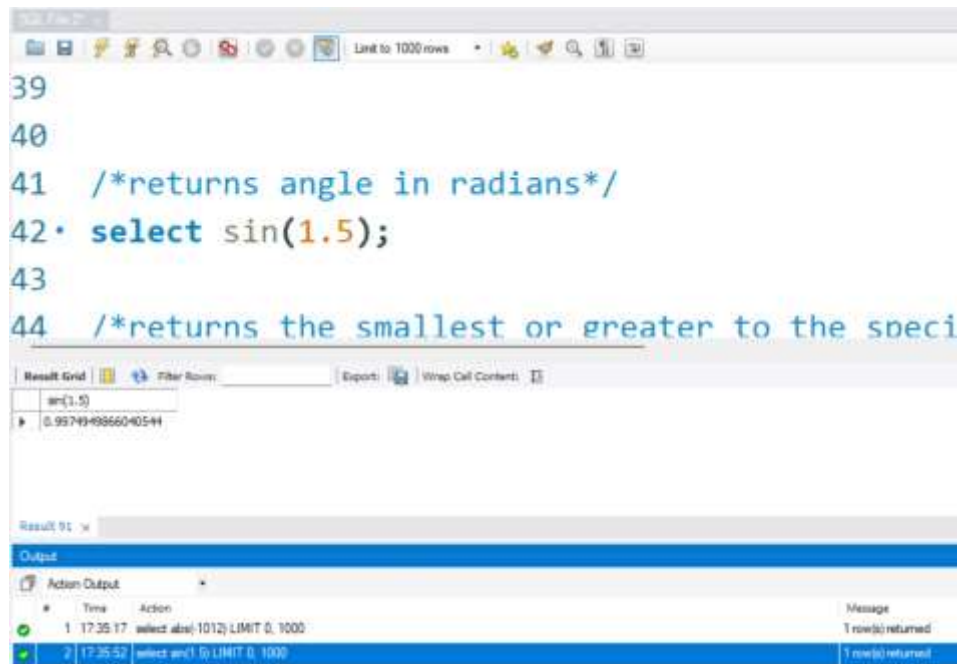
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

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:


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

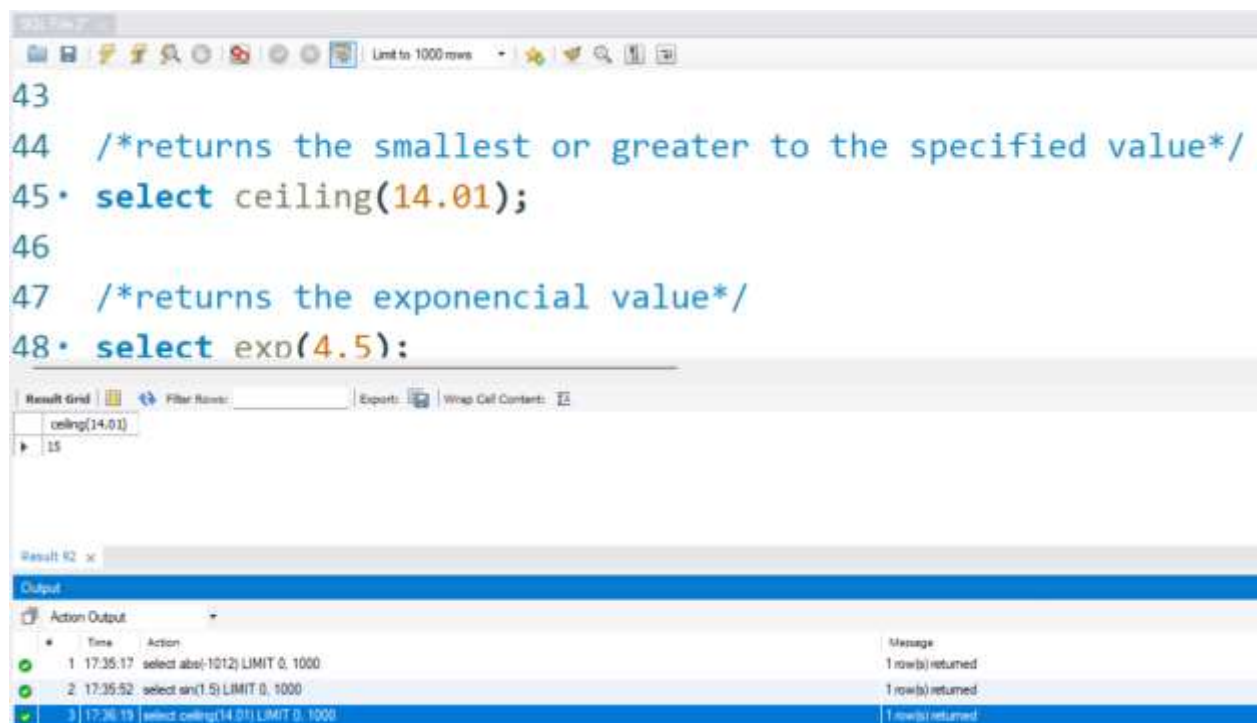Result Grid | Filter Rows: | Export: | Wrap Cell Content:

sin(1.5)
► 0.9974949866040544

Result 91

Output

Action Output •

#	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:


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

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

ceiling(14.01)
► 15

Result 92

Output

Action Output •

#	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 17:36:15	select ceiling(14.01) LIMIT 0, 1000	1 row(s) returned

EXP:

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

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

exp(4.5)
90.01713130052181

Result 93 x

Output

Action Output •

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

FLOOR:

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

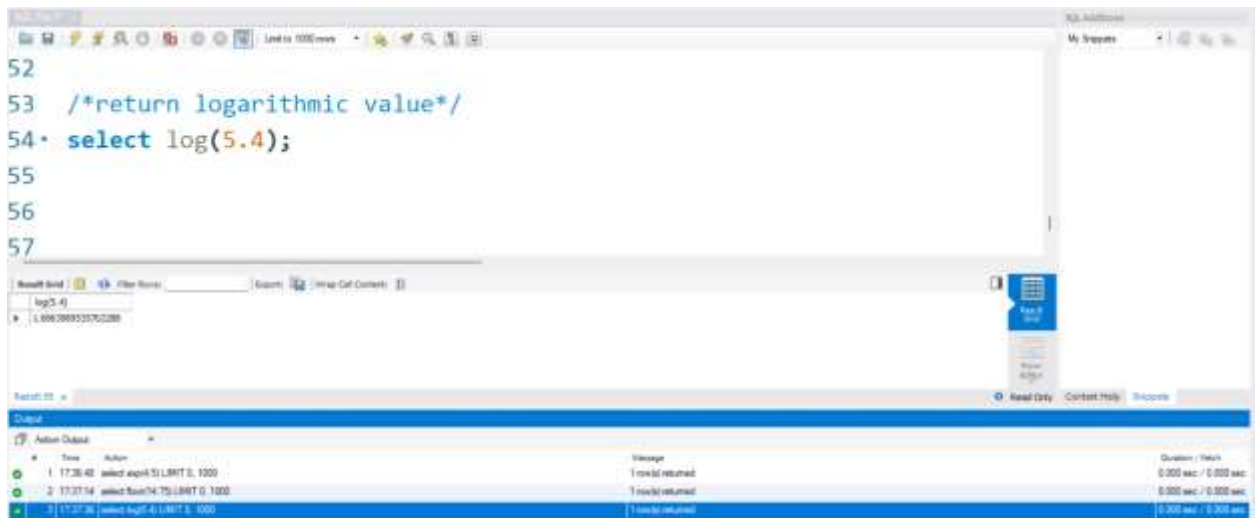Result Grid | Filter Rows: | Export: | Wrap Cell Content:

floor(14.75)
14

Result 94 x

Output

Action Output •

#	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:


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