

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

entry\_d41

- Tables
  - country
  - customers
  - dance\_students
  - employees
  - managers
  - music\_students
  - new\_employees
  - orders

Administration Schemas

Information

entry\_d41

1 #1.Retrieving the Current Date and Time

2 • SELECT NOW(); -- Returns the current date and time

3 • SELECT CURDATE(); -- Returns the current date

4 • SELECT CURTIME(); -- Returns the current time

5

6 #2.Extract specific parts of a date.

7 • SELECT YEAR('2024-11-28');

8 • SELECT MONTH('2024-11-28');

9 • SELECT DAY('2024-11-28');

10

Result Grid

Filter Rows: Export: Wrap Cell Content:

NOW()

2024-11-30 17:29:26

Result 19

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 44	22:58:10	SELECT @@global.time_zone	1 row(s) returned	0.000 sec / 0.000 sec
✓ 45	22:59:26	SELECT NOW()	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar contains a Navigator pane with a tree view showing the database structure: entry\_d41 (Tables: country, customers, dance\_students, employees, managers, music\_students, new\_employees, orders), Administration, and Schemas. The main editor window displays a SQL script with two sections: #1.Retrieving the Current Date and Time, and #2.Extract specific parts of a date. The script includes SELECT NOW(), SELECT CURDATE(), and SELECT CURTIME() queries. The bottom pane shows the 'Result Grid' with a single row of results for the CURDATE() query, displaying '2024-11-30'. The bottom status bar indicates 'Query Completed'.

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

entry\_d41

Tables

- country
- customers
- dance\_students
- employees
- managers
- music\_students
- new\_employees
- orders

Administration Schemas

Information

No object selected

Result Grid

Filter Rows: Export: Wrap Cell Content: 11

	CURDATE()
▶	2024-11-30

Result 20 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
45	22:59:26	SELECT NOW()	1 row(s) returned	0.000 sec / 0.000 sec
46	22:59:37	SELECT CURDATE()	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

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Navigator

SCHMAS

Filter objects

entry\_d41

Tables

- country
- customers
- dance\_students
- employees
- managers
- music\_students
- new\_employees
- orders

Administration Schemas

Information

No object selected

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Result Grid

Form Editor

Result 21 x

Read Only

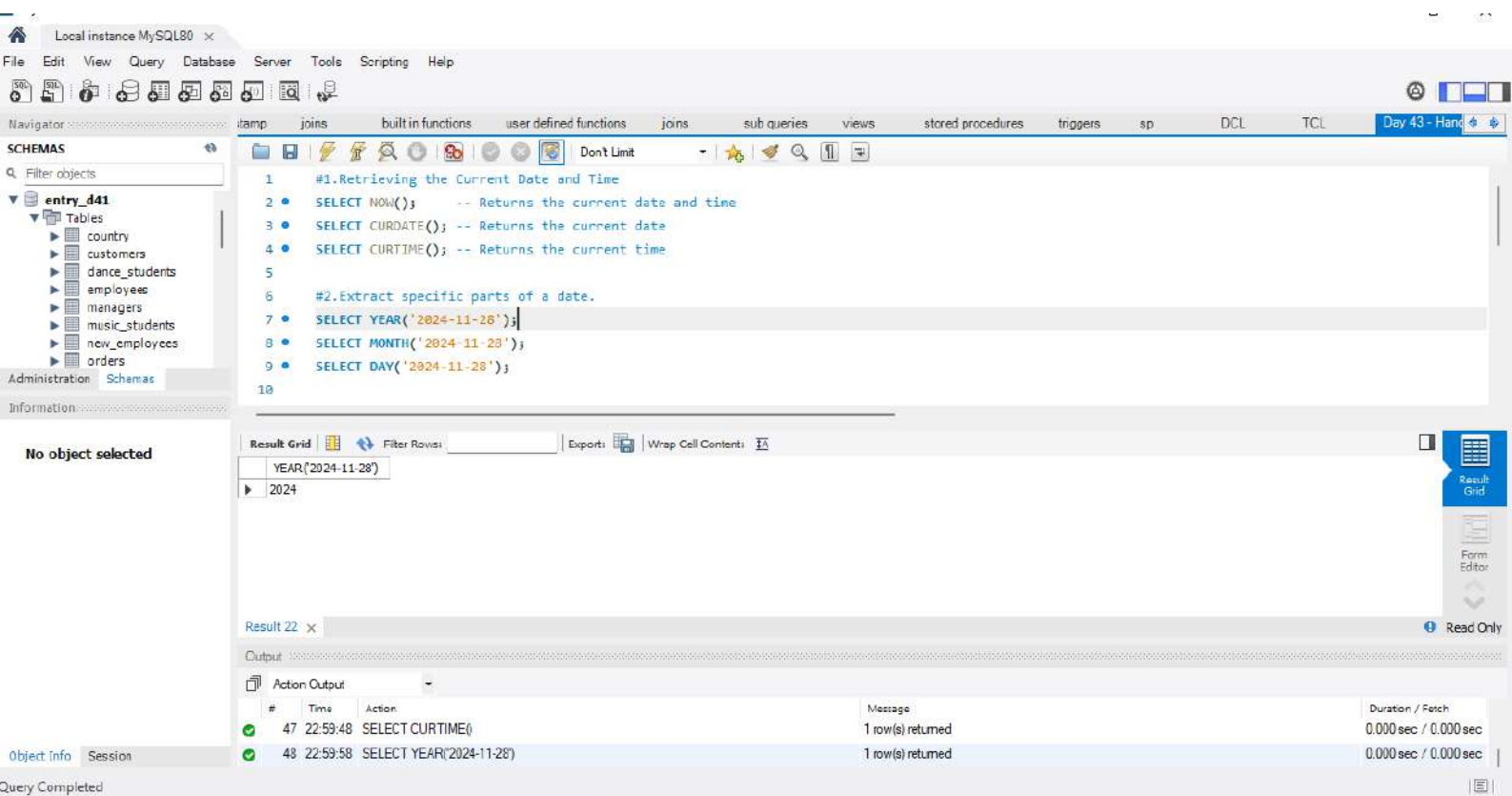
Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 46	22:59:37	SELECT CURDATE()	1 row(s) returned	0.000 sec / 0.000 sec
✓ 47	22:59:48	SELECT CURTIME()	1 row(s) returned	0.000 sec / 0.000 sec

Query Completed

```
1 #1.Retrieving the Current Date and Time
2 • SELECT NOW(); -- Returns the current date and time
3 • SELECT CURDATE(); -- Returns the current date
4 • SELECT CURTIME(); -- Returns the current time
5
6 #2.Extract specific parts of a date.
7 • SELECT YEAR('2024-11-28');
8 • SELECT MONTH('2024-11-28');
9 • SELECT DAY('2024-11-28');
10
```



MySQL Workbench

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Navigator

SCHEMAS

Filter objects

entry\_d41

Tables

country

customers

dance\_students

employees

managers

music\_students

new\_employees

orders

Administration

Schemas

Information

No object selected

Query Editor

12345678910

#1.Retrieving the Current Date and Time

SELECT NOW(); -- Returns the current date and time

SELECT CURDATE(); -- Returns the current date

SELECT CURTIME(); -- Returns the current time

#2.Extract specific parts of a date.

SELECT YEAR('2024-11-28');

SELECT MONTH('2024-11-28');

SELECT DAY('2024-11-28');

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

MONTH('2024-11-28')

11

Result 23

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Feich
✓ 48	22:59:58	SELECT YEAR(2024-11-28)	1 row(s) returned	0.000 sec / 0.000 sec
✓ 49	23:00:09	SELECT MONTH(2024-11-28)	1 row(s) returned	0.000 sec / 0.000 sec

Object Info

Session

Query Completed

MySQL Workbench

Local instance MySQL80 x

FileEditViewQueryDatabaseServerToolsScriptingHelp

Navigator

SCHEMAS

Filter objects

▼entry\_d41

▼Tables

country

customers

dance\_students

employees

managers

music\_students

new\_employees

orders

AdministrationSchemas

Information

Result Grid

Filter Rows:

Export:

Wrap Cell Contents:

Result Grid

DAY('2024-11-28')

28

Result 24 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
49	23:00:09	SELECT MONTH('2024-11-28')	1 row(s) returned	0.000 sec / 0.000 sec
50	23:00:18	SELECT DAY('2024-11-28')	1 row(s) returned	0.000 sec / 0.000 sec

Query Completed

```
1 #1.Retrieving the Current Date and Time
2 • SELECT NOW(); -- Returns the current date and time
3 • SELECT CURDATE(); -- Returns the current date
4 • SELECT CURTIME(); -- Returns the current time
5
6 #2.Extract specific parts of a date.
7 • SELECT YEAR('2024-11-28');
8 • SELECT MONTH('2024-11-28');
9 • SELECT DAY('2024-11-28');
10
```

DAY('2024-11-28')
28

#	Time	Action	Message	Duration / Fetch
49	23:00:09	SELECT MONTH('2024-11-28')	1 row(s) returned	0.000 sec / 0.000 sec
50	23:00:18	SELECT DAY('2024-11-28')	1 row(s) returned	0.000 sec / 0.000 sec

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

entry\_d41

Tables

country

customers

dance\_students

employees

managers

music\_students

new\_employees

orders

Administration Schemas

Result Grid

Filter Rows:

Export: Wrap Cell Contents

Result Grid

Form Editor

Result 25

Output

Action Output

#	Time	Action	Message	Duration / Fetch
50	23:00:18	SELECT DAY('2024-11-28')	1 row(s) returned	0.000 sec / 0.000 sec
51	23:00:35	SELECT HOUR('14:30:00')	1 row(s) returned	0.000 sec / 0.000 sec

Query Completed

```
7 • SELECT YEAR('2024-11-28');
8 • SELECT MONTH('2024-11-28');
9 • SELECT DAY('2024-11-28');
10
11 #3.Hour(time), MINUTE(time), SECOND(time):
12 • SELECT HOUR('14:30:00'); -- Extract time components.
13
14 #4.Formatting date and time
15 • SELECT DATE_FORMAT('2024-11-28', '%W, %M %d, %Y'); -- Customizes the output format.
16
```

Result Grid

HOUR('14:30:00')
14



MySQL Workbench

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Navigation

SCHMAS

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Information

timestampjoinsbuilt in functionsuser defined functionsjoinsub queriesviewsstored procedurestriggersspDCLTCLDay 43 - Hand

Don't Limit

10

11#5.HOUR(time), MINUTE(time), SECOND(time):

12• SELECT HOUR('14:30:00'); -- Extract time components.

13

14#4.Formatting date and time

15• SELECT DATE\_FORMAT('2024-11-28', '%W, %M %d, %Y'); -- Customizes the output format.

16

17#5.DATE\_ADD() and DATE\_SUB():

18• SELECT DATE\_ADD('2024-11-28', INTERVAL 10 DAY);

19• SELECT DATE\_SUB('2024-11-28', INTERVAL 1 MONTH); -- Add or subtract intervals.

No object selected

Result Grid

Filter Rows:

Export:

Wrap Cell Contents:

DATE\_FORMAT('2024-11-28', '%W, %M %d, %Y')

Thursday, November 28, 2024

Result 26

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
51	23:00:35	SELECT HOUR(14:30:00)	1 row(s) returned	0.000 sec / 0.000 sec
52	23:00:45	SELECT DATE_FORMAT(2024-11-28, '%W, %M %d, %Y')	1 row(s) returned	0.000 sec / 0.000 sec

Object Info

Session

Query Completed



MySQL Workbench

Local instance MySQL80

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Navigator

SCHEMAS

Filter objects

entry\_d41

Tables

- country
- customers
- dance\_students
- employees
- managers
- music\_students
- new\_employees
- orders

Administration Schemas

Information

No object selected

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

DATE\_ADD('2024-11-28', INTERVAL 10 DAY)

2024-12-08

Result 27

Output

Action Output

#	Time	Action	Message	Duration / Fetch
52	23:00:45	SELECT DATE_FORMAT('2024-11-28', '%W, %M %d, %Y')	1 row(s) returned	0.000 sec / 0.000 sec
53	23:00:57	SELECT DATE_ADD('2024-11-28', INTERVAL 10 DAY)	1 row(s) returned	0.000 sec / 0.000 sec

Query Completed

```
13
14 #4.Formatting date and time
15 • SELECT DATE_FORMAT('2024-11-28', '%W, %M %d, %Y'); -- Customizes the output format.
16
17 #5.DATE_ADD() and DATE_SUB():
18 • SELECT DATE_ADD('2024-11-28', INTERVAL 10 DAY);
19 • SELECT DATE_SUB('2024-11-28', INTERVAL 1 MONTH); -- Add or subtract intervals.
20
21 #6.Calculating differences
22 • SELECT DATEDIFF('2024-12-01', '2024-11-28'); -- Difference in days between two dates.
```

MySQL Workbench

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Navigator

SCHEMAS

Filter objects

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Tables

country

customers

dance\_students

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music\_students

new\_employees

orders

Administration

Schemas

No object selected

Information

Result Grid

Filter Rows:

Exports

Wrap Cell Contents

Result Grid

Form Editor

Read Only

13

14 #4.Formatting date and time

15 • SELECT DATE\_FORMAT('2024-11-28', '%W, %M %d, %Y'); -- Customizes the output format.

16

17 #5.DATE\_ADD() and DATE\_SUB():

18 • SELECT DATE\_ADD('2024-11-28', INTERVAL 10 DAY);

19 • SELECT DATE\_SUB('2024-11-28', INTERVAL 1 MONTH); -- Add or subtract intervals.

20

21 #6.Calculating differences

22 • SELECT DATEDIFF('2024-12-01', '2024-11-28'); -- Difference in days between two dates.

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 53	23:00:57	SELECT DATE_ADD(2024-11-28, INTERVAL 10 DAY)	1 row(s) returned	0.000 sec / 0.000 sec
✓ 54	23:01:06	SELECT DATE_SUB(2024-11-28, INTERVAL 1 MONTH)	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

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Filter objects

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Result Grid

Filter Rows

Export

Wrap Cell Contents

DATEDIFF('2024-12-01', '2024-11-28')

3

Result29 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
54	23:01:06	SELECT DATE_SUB('2024-11-28', INTERVAL 1 MONTH)	1 row(s) returned	0.000 sec / 0.000 sec
55	23:01:16	SELECT DATEDIFF('2024-12-01', '2024-11-28')	1 row(s) returned	0.000 sec / 0.000 sec

Query Completed

15 • SELECT DATE\_FORMAT('2024-11-28', '%W, %M %d, %Y'); -- Customizes the output format.

16

17 #5.DATE\_ADD() and DATE\_SUB():

18 • SELECT DATE\_ADD('2024-11-28', INTERVAL 10 DAY);

19 • SELECT DATE\_SUB('2024-11-28', INTERVAL 1 MONTH); -- Add or subtract intervals.

20

21 #6.Calculating differences

22 • SELECT DATEDIFF('2024-12-01', '2024-11-28'); -- Difference in days between two dates.

23 • SELECT TIMEDIFF('15:30:00', '14:00:00'); -- Difference between two times.

24

MySQL Workbench

Local instance MySQL80

FileEditViewQueryDatabaseServerToolsScriptingHelp

Navigator

SCHEMAS

Filter objects

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Tables

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new\_employees

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No object selected

timestamp

built in functions

user defined functions

joins

sub queries

views

stored procedures

triggers

sp

DCL

TCL

Day 43 - Hand

15

•

SELECT DATE\_FORMAT('2024-11-28', '%W, %M %d, %Y'); -- Customizes the output format.

16

17

#5.DATE\_ADD() and DATE\_SUB():

18

•

SELECT DATE\_ADD('2024-11-28', INTERVAL 10 DAY);

19

•

SELECT DATE\_SUB('2024-11-28', INTERVAL 1 MONTH); -- Add or subtract intervals.

20

21

#6.Calculating differences

22

•

SELECT DATEDIFF('2024-12-01', '2024-11-28'); -- Difference in days between two dates.

23

•

SELECT TIMEDIFF('15:30:00', '14:00:00'); -- Difference between two times.

24

Result Grid

Filter Rows

Export

Wrap Cell Contents

Result Grid

Form Editor

Read Only

Output

Action Output

#

Time

Action

Message

Duration / Fetch

55

23:01:16

SELECT DATEDIFF('2024-12-01', '2024-11-28')

1 row(s) returned

0.000 sec / 0.000 sec

56

23:01:27

SELECT TIMEDIFF('15:30:00', '14:00:00')

1 row(s) returned

0.000 sec / 0.000 sec

Object InfoSession

Query Completed

Local instance MySQL80

FileEditViewQueryDatabaseServerToolsScriptingHelp

Navigator

SCHEMAS

Filter objects

entry\_d41

Tables

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dance\_students

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music\_students

new\_employees

orders

AdministrationSchemas

No object selected

tempjoinsbuilt in functionsuser defined functionsjoinsub queriesviewsstored procedurestriggersspDCLTCLDay 43 - Hand

Don't Limit

18 • SELECT DATE\_ADD('2024-11-28', INTERVAL 10 DAY);

19 • SELECT DATE\_SUB('2024-11-28', INTERVAL 1 MONTH); -- Add or subtract intervals.

20

21 #6.Calculating differences

22 • SELECT DATEDIFF('2024-12-01', '2024-11-28'); -- Difference in days between two dates.

23 • SELECT TIMEDIFF('15:30:00', '14:00:00'); -- Difference between two times.

24

25 #7.Working with time zones

26 • SET time\_zone = '+00:00';

27 • SELECT @@global.time\_zone; -- Set and retrieve time zones

Result Grid

Filter Rows:

Exports

Wrap Cell Contents

@@global.time\_zone

SYSTEM

Result 31

Output

Action Output

#	Time	Action	Message	Duration / Fetch
57	23:01:39	SET time_zone = '+00:00'	0 row(s) affected	0.000 sec
58	23:01:42	SELECT @@global.time_zone	1 row(s) returned	0.000 sec / 0.000 sec

Object InfoSessionQuery Completed