

DATES



CURRENT DATE

- You can access the current date by using the CURDATE() function

CURDATE()
2021-03-01

```
SELECT CURDATE();
```

CURRENT_DATE
2021-03-01

```
SELECT CURRENT_DATE;
```

CURRENT_DATE is a synonym that can be used in place of the function



CURRENT_TIME

Can select the current time using the CURTIME() function.

You can also use the synonym CURRENT_TIME

CURTIME()
16:06:23

NOTE: Time is on 24 hour clock

```
1 SELECT CURTIME();  
2
```



TIMESTAMP

- The time stamp function take two expressions
- First is the datetime value and the second is a time value
- This will return date or time as datetime value

TIMESTAMP('2021-02-28 12:00:00')

2021-02-28 12:00:00

```
1 SELECT TIMESTAMP('2021-02-28 12:00:00');
```

TIMESTAMP('2021-02-28')

2021-02-28 00:00:00

TIMESTAMP('2021-02-28', '13:00:01')
--

2021-02-28 13:00:01

```
SELECT TIMESTAMP('2021-02-28', '13:00:01');
```

```
1 SELECT TIMESTAMP('2021-02-28');
```

```
2
```



DATE Function

- The Date function will extract the date part of a date or datetime expression

DATE('2021-02-28 13:00:01')
2021-02-28

```
SELECT DATE('2021-02-28 13:00:01');
```



TIME Function

- This will extract the time from a time or timestamp

TIME('2021-02-28 13:00:01')
13:00:01

```
1 SELECT TIME('2021-02-28 13:00:01');  
2
```



DATEDIFF function

- The DATEDIFF function takes two values – and determines the number of days between the two.

```
SELECT username, info_updated, DATEDIFF(CURRENT_DATE,  
info_updated)  
FROM test
```

username	info_updated	DATEDIFF(CURRENT_DATE, info_updated)
alinebarger0	2020-04-12	323
jmoftett1	2020-09-30	152
cbixley2	2020-04-06	329
nyushachkov3	2020-05-25	280
haudiss4	2020-05-27	278



DATEDIFF

```
SELECT username, info_updated, DATEDIFF(CURRENT_DATE, info_updated) AS difference
FROM test
WHERE DATEDIFF(CURRENT_DATE, info_updated) > 200
ORDER BY difference DESC;
```

username	info_updated	difference
ctasseler2g	2020-03-11	355
dbeech2q	2020-03-11	355
dstening1u	2020-03-21	345
yraccio1e	2020-03-22	344
ccalfc	2020-03-24	342
agiacomazzo9	2020-03-25	341
ggreenlees1f	2020-03-27	339
ahateun1z	2020-03-28	338



TIME DIFF

- The TIMEDIFF() function returns the time between two values

TIMEDIFF('2021-03-01 13:00:00', CURRENT_TIMESTAMP)
-03:36:19

```
SELECT TIMEDIFF('2021-03-01 13:00:00', CURRENT_TIMESTAMP);
```



EXTRACT

- The EXTRACT function allow you to extract a portion from the date/time
- That portion could be the:
 - YEAR – gets the year
 - MONTH – gets the month
 - DAY – gets the day
 - HOUR – gets the hour
 - MINUTE – gets the minute
 - SECOND – gets the seconds

id	username	info_updated
4	nyushachkov3	2020-05-25 15:14:50
5	haudiss4	2020-05-27 00:11:27
6	kcornejo5	2020-05-17 18:13:36
19	cnisardi	2020-05-20 14:21:42
21	ariplyk	2020-05-16 11:54:54

```
SELECT * FROM test
WHERE EXTRACT(MONTH FROM info_updated) = 5;
```



Adding to date and time

- You can use DATE_ADD function to add a specific interval to a date
- The function takes two arguments
 - First argument is the date
 - Second is made up of the interval and the unit
 - For example – today's date + 2 days would be

```
DATE_ADD(CURRENT_DATE, INTERVAL 2 DAY)
```

Or today's date in one year

```
DATE_ADD(CURRENT_DATE, INTERVAL 1 YEAR)
```

```
DATE_ADD(CURRENT_TIMESTAMP, INTERVAL '1 1' DAY_HOUR)
```

```
2021-03-02 17:57:20
```

```
SELECT DATE_ADD(CURRENT_TIMESTAMP, INTERVAL '1 1' DAY_HOUR)
```



Adding to date and time

ADDTIME(CURRENT_TIMESTAMP, '02:00:00')
2021-03-01 18:54:53

```
SELECT ADDTIME(CURRENT_TIMESTAMP, '02:00:00')
```

