

Date and Time Functions - Task 6

RDBMS used : MySql

- **NOW()** - Returns the current date and time.

```
select NOW();
```

NOW()
2025-03-27 22:41:51

- **DATEDIFF(end_date, start_date)** - Returns the no. of days between two dates.

```
select DATEDIFF(NOW(), "2025-03-01") as days_difference;
```

days_difference
26

```
select DATEDIFF("2024-12-31", "2024-01-01") as days_difference;
```

days_difference
365

- **DATE_ADD(date, INTERVAL value unit)** - Adds a time/date interval to a date and then returns the date.

```
select DATE_ADD(NOW(), INTERVAL 7 DAY) as after_7_days;
```

after_7_days
2025-04-03 22:48:49

```
select DATE_ADD(NOW(), INTERVAL 20 MINUTE) as after_20_mins;
```

after_20_mins
2025-03-27 23:10:25

```
select order_id, order_date, order_status,
date_add(order_date, INTERVAL 4 DAY) as delivery_date from orders
where order_status="shipped";
```

order_id	order_date	order_status	delivery_date
1	2020-04-28	shipped	2020-05-02
3	2021-10-08	shipped	2021-10-12
4	2021-02-22	shipped	2021-02-26

- **DATE_SUB(date, INTERVAL value unit)** - Subtracts a time/date interval from a date and then returns the date.

```
select DATE_SUB(NOW(), INTERVAL 30 DAY);
```

DATE_SUB(NOW(), INTERVAL 30 DAY)
2025-02-25 22:53:40

```
select order_id, order_date, order_status from orders
where order_date >= date_sub(NOW(), INTERVAL 30 DAY);
```

order_id	order_date	order_status
NULL	NULL	NULL

```
select order_id, order_date, order_status from orders
where order_date >= date_sub("2021-10-30", INTERVAL 30 DAY);
```

order_id	order_date	order_status
3	2021-10-08	shipped
NULL	NULL	NULL

```
select DATE_SUB(NOW(), INTERVAL 3 HOUR) as before_3_hours;
```

before_3_hours
2025-03-27 19:56:27

- **DATE_FORMAT(date, format)** – Converts the date to a specified format

```
select DATE_FORMAT("2025-01-15", "%Y") as year_format;
```

year_format
2025

```
select date_format(now(), "%a") as abbrev_day;
```

abbrev_day
Fri

```
select date_format(now(), "%W") as full_day;
```

full_day
Friday

```
select date_format("2021-03-21", "%d-%m-%Y");
```

date_format("2021-03-21", "%d-%m-%Y")
21-03-2021

```
select date_format("2021-03-21", "%d-%M-%Y");
```

date_format("2021-03-21", "%d-%M-%Y")
21-March-2021

- **CONVERT(value, type)** - Converts a value into the specified datatype.

```
select CONVERT("2017-08-29", DATE) as str_to_date;
```

	str_to_date
▶	2017-08-29

```
select CONVERT("2017-08-29", DATETIME) as str_to_dateTIME;
```

	str_to_dateTIME
▶	2017-08-29 00:00:00

```
select CONVERT("140810", TIME) as hh_mm_ss;
```

	hh_mm_ss
▶	14:08:10