SQL Task 6

Date and Time Functions - Task 6

RDBMS used: MySql

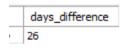
> NOW() - Returns the current date and time.

select NOW();

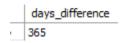


> DATEDIFF(end_date, start_date) - Returns the no. of days between two dates.

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



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



> 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
```

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;
```

2025

select date_format(now(),"%a") as abbrv_day;

```
abbrv_day
```

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