

1. Write a query to get the current date in the following format.

Sample date : 2024-04-04

Output : April 4, 2024

```
SELECT DATE_FORMAT (CURDATE (), '%M %e, %Y')  
AS 'Current_date';
```

2. Write a query to extract the year from the current date.

```
EXTRACT(YEAR FROM NOW())  
2017
```

3. Write a query to get the first name and hire date from employees table where hire date between '1987-06-01' and '1987-07-30'

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	

```
SELECT FIRST_NAME, HIRE_DATE  
FROM employees  
WHERE HIRE_DATE  
BETWEEN '1987-06-01 00:00:00'  
AND '1987-07-30 23:59:59';
```

4. Write a query to display the current date in the following format.

Sample output: Thursday 4th September 2014 00:00:00

```
SELECT date_format(CURDATE(), '%W %D %M %Y %T');
```

5. Write a query to get first name of employees who joined in 1987.

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	

```
SELECT FIRST_NAME, HIRE_DATE FROM employees WHERE  
YEAR(HIRE_DATE)=1987;
```

6. **Retrieving Current Date and Time:**

```
SELECT CURRENT_DATE;  
SELECT CURRENT_TIME;  
SELECT CURRENT_TIMESTAMP;
```

7. Consider a table named `orders` with the following structure:

order_id	order_date	delivery_date
1	2024-04-01	2024-04-05
2	2024-03-15	2024-03-20
3	2024-04-10	2024-04-15

Retrieve Current Date and Time:

```
SELECT CURRENT_DATE AS current_date, CURRENT_TIME AS current_time,
CURRENT_TIMESTAMP AS current_timestamp;
```

Output:

current_date	current_time	current_timestamp
2024-04-27	12:30:45	2024-04-27 12:30:45 UTC

8. Extract Date Parts from a Date Column:

```
SELECT order_id, EXTRACT(YEAR FROM order_date) AS order_year,
EXTRACT(MONTH FROM order_date) AS order_month,
EXTRACT(DAY FROM order_date) AS order_day
```

FROM orders;

Output:

order_id	order_year	order_month	order_day
1	2024	4	1
2	2024	3	15
3	2024	4	10

9. Calculate Age from Birthdate: Assuming we have a table named `employees` with a `birthdate` column:

```
SELECT employee_id, TIMESTAMPDIFF(YEAR, birthdate, CURDATE()) AS age
FROM employees;
```

Output:

lua		
employee_id	age	
1	35	
2	28	
3	42	

10. **Find the Difference in Days Between Two Dates:**

```
SELECT order_id, DATEDIFF(delivery_date, order_date) AS days_difference  
FROM orders;
```

Output:

lua		
order_id	days_difference	
1	4	
2	5	
3	5	

11. **Format Date and Time:**

```
SELECT order_id, DATE_FORMAT(order_date, '%Y-%m-%d') AS formatted_order_date,  
       TIME_FORMAT(delivery_date, '%H:%i:%s') AS formatted_delivery_time  
FROM orders;
```

Output:

yaml			
order_id	formatted_order_date	formatted_delivery_time	
1	2024-04-01	00:00:00	
2	2024-03-15	00:00:00	
3	2024-04-10	00:00:00	