

MySQL Date and Time - Exercises, Practice, Solution

1.] Write a query to display the first day of month (in datetime format) three month before the current date month.

➤ Output:

	THREE
▶	2025-09-01

2.] Write a query to display the last day of the month (in datetime format) three months before the current month.

➤ Output:

```
SELECT (SUBDATE(ADDDATE(CURDATE(),INTERVAL 1 MONTH),INTERVAL  
DAYOFMONTH(CURDATE()) DAY))AS LastDayOfTheMonth;
```

	LastDayOfTheMonth
▶	2025-12-31

3.] Write a query to get the distinct Mondays from hire_date in employees tables.

➤ Output:

```
SELECT DISTINCT(STR_TO_DATE(CONCAT(YEARWEEK(hire_date),'1'), '%x%v%w'))AS  
STNDATE FROM employees ;
```

	STNDATE
▶	1987-06-08
	1987-06-15
	1987-06-22
	1987-06-29
	1987-07-06

4.] Write a query to get the first day of the current year.

➤ Output:

```
SELECT MAKEDATE(EXTRACT(YEAR FROM CURDATE()), 1)AS FSTDATE;
```

	FSTDATE
▶	2025-01-01

5.] Write a query to get the last day of the current year.

➤ Output

```
SELECT STR_TO_DATE(CONCAT(12,31,EXTRACT(YEAR FROM CURDATE())),'%m%d%Y') AS  
LSTDATE;
```

➤ Output:

	LSTDATE
▶	2025-12-31

6.] Write a query to calculate the age in year.

➤ Output:

```
SELECT YEAR(CURRENT_TIMESTAMP) - YEAR("1967-06-08") -  
(RIGHT(CURRENT_TIMESTAMP, 5) < RIGHT("1967-06-08", 5)) AS AGE
```

	AGE
▶	58

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

➤ Output:

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

	Current_date
▶	December 28, 2025

8.] Write a query to get the current date in Thursday September 2014 format.
Thursday September 2014

➤ Output:

9.] Write a query to extract the year from the current date.

➤ Output:

```
SELECT EXTRACT(YEAR FROM NOW()) AS curyear;
```

	curyear
▶	2025

10.] Write a query to get the DATE value from a given day (number in N).

➤ Output:

```
SELECT FROM_DAYS(730677) AS NUMBERISN;
```

	NUMBERISN
▶	2000-07-11

11.] 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'

➤ Output:

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

	FIRST_NAME	HIRE_DATE
▶	Steven	1987-06-17
	Neena	1987-06-18
	Lex	1987-06-19
	Alexander	1987-06-20
	Bruce	1987-06-21

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

➤ Output:

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

CHANGEFORMAT
Sunday 28th December 2025 00:00:00

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

➤ Output:

```
SELECT date_format(CURDATE(), '%d/%m/%Y' ) AS NEWFORMAT;
```

NEWFORMAT
28/12/2025

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

➤ Output:

```
SELECT date_format( CURDATE(), '%l:%i %p %b %e, %Y' )AS NEWFORMAT1;
```

NEWFORMAT1
12:00 AM Dec 28, 2025

15.] Write a query to get the firstname, lastname who joined in the month of June.

➤ Output:

```
SELECT first_name, last_name FROM employees WHERE MONTH(HIRE_DATE) = 6;
```

first_name	last_name
Steven	King
Neena	Kochhar
Lex	De Haan
Alexander	Hunold
Bruce	Ernst

16.] Write a query to get the years in which more than 10 employees joined.

➤ Output:

```
SELECT DATE_FORMAT(HIRE_DATE, '%Y') AS MORETHAN10 FROM employees GROUP BY  
DATE_FORMAT(HIRE_DATE, '%Y') HAVING COUNT(EMPLOYEE_ID) > 10 ;
```

MORETHAN10
1987

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

➤ Output:

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

FIRST_NAME	HIRE_DATE
Steven	1987-06-17
Neena	1987-06-18
Lex	1987-06-19
Alexander	1987-06-20
Bruce	1987-06-21

18.] Write a query to get department name, manager name, and salary of the manager for all managers whose experience is more than 5 years.

➤ Output:

```
SELECT DEPARTMENT_NAME, FIRST_NAME, SALARY FROM departments D JOIN
employees E ON (D.MANAGER_ID=E.MANAGER_ID) WHERE (SYSDATE()-HIRE_DATE) /
365 > 5;
```

	DEPARTMENT_NAME	FIRST_NAME	SALARY
▶	Marketing	Pat	6000.00
	Purchasing	Alexander	3100.00
	Purchasing	Shelli	2900.00
	Purchasing	Sigal	2800.00
	Purchasing	Guy	2600.00

19.] Write a query to get employee ID, last name, and date of first salary of the employees.

➤ Output:

```
SELECT employee_id, last_name, hire_date, LAST_DAY(hire_date) FROM employees;
```

	employee_id	last_name	hire_date	LAST_DAY(hire_date)
▶	100	King	1987-06-17	1987-06-30
	101	Kochhar	1987-06-18	1987-06-30
	102	De Haan	1987-06-19	1987-06-30
	103	Hunold	1987-06-20	1987-06-30
	104	Ernst	1987-06-21	1987-06-30

20.] Write a query to get first name, hire date and experience of the employees.

➤ Output:

```
SELECT FIRST_NAME, SYSDATE(), HIRE_DATE, DATEDIFF(SYSDATE(), hire_date)/365 AS
hiredate FROM employees;
```

	FIRST_NAME	SYSDATE()	HIRE_DATE	hiredate
▶	Steven	2025-12-28 23:44:44	1987-06-17	38.5589
	Neena	2025-12-28 23:44:44	1987-06-18	38.5562
	Lex	2025-12-28 23:44:44	1987-06-19	38.5534
	Alexander	2025-12-28 23:44:44	1987-06-20	38.5507
	Bruce	2025-12-28 23:44:44	1987-06-21	38.5479

21.] Write a query to get the department ID, year, and number of employees joined.

➤ Output:

```
SELECT DEPARTMENT_ID, DATE_FORMAT(HIRE_DATE,'%Y'),COUNT(EMPLOYEE_ID) FROM
employees GROUP BY DEPARTMENT_ID, DATE_FORMAT(HIRE_DATE, '%Y') ORDER BY
DEPARTMENT_ID;
```

	DEPARTMENT_ID	DATE_FORMAT(HIRE_DATE,'%Y')	COUNT(EMPLOYEE_ID)
▶	0	1987	1
	10	1987	1
	20	1987	2
	30	1987	6
	40	1987	1