

DATE functions

Q₁

SELECT emp-id

name,

hire-date,

DATEADD(MONTH, 6, hire-date) AS hire-plus-6-month
FROM employees;

emp-id	name	hire-date	hire-plus-6-months
1	Alice	2020-01-15	2020-07-15
2	Bob	2021-06-10	2021-12-10
3	Charlie	2023-03-22	2023-09-22

Q₂

SELECT student-id,

name

DATEDIFF(DAY, dob, GETDATE()) AS age-in-days
FROM students;

Student-id	name	dob	age-in-days
101	Maya	2005-08-10	7392
102	Ethan	2004-12-01	7606
103	Sienna	2006-03-15	7171

Q₃

SELECT ~~id~~ event-id,

event name,

DATEDIFF(DAY, GETDATE(), event-date) AS days-remaining
FROM events;

event-id	event-name	event-date	day-remaining
1	Seminar	2024-06-15	- 486
2	Workshop	2025-09-01	- 42
3	Hackathon	2025-01-20	- 266

Q4.

```
SELECT invoice-id,
       issue-date,
       due-date,
       DATE DIFF (DAY, issue-date, due-date) AS days-between
FROM invoices;
```

invoice-id	issue-date	due-date	days-between
501	2025-03-10	2025-03-25	15
502	2025-06-01	2025-06-15	14
503	2025-04-10	2025-04-20	10

Q5

```
SELECT course-id,
       name,
       TO_CHAR (start-date, 'Month YYYY') AS formatted-date
FROM courses;
```

Course-id	name	formatted-date
201	SQL Basics	May 2025
202	Python	June 2025

Q6 SELECT member-id,
DATEFROMPARTS (start-year, start-month, start-day) AS full-start-date
FROM Membership;

member-id	full-start-date
1	2023-05-10
2	2022-11-25

Q7 SELECT sub-id,
plan,
DATEADD(YEAR, 1, renewal-date) AS extended-renewal-date
FROM subscriptions;

Sub-id	Plan	extended-renewal-date
11	Basic	2026-01-01
12	Premium	2026-03-15

Q8 SELECT order-id,
order-date,
CURRENT-DATE AS today-date,
DATEDIFF(DAY, order-date, CURRENT-DATE) AS days-since-order
FROM orders;

order-id	order-date	today-date	days-since-order
1001	2025-04-15	2025-10-13	181
1002	2025-06-10	2025-10-13	186

Q9 SELECT training-id,
topic,
EXTRACT(YEAR FROM training-date) AS training-year
FROM Trainings;

training-id	topic	training-year
1	Safety	2025
2	Compliance	2025

Q10

SELECT post-id,
title,
EXTRACT(HOUR FROM published-on) AS hour-published,
EXTRACT(MINUTE FROM published-on) AS minute-published
FROM blog-Posts;

Post-id	title	hour-published	minute-published
1	SQL tips	10	15
2	Data cleaning	10	45

Q11 SELECT driver-id

licence-expiry,

DATEDIFF(DAY, CURRENT-DATE, licence-expiry) AS days-left
FROM Drivers;

driver-id	licence-expiry	days-left
301	2025-08-10	-65
302	2023-12-31	-652

* negative value show that the licence has already expired

Q12 SELECT message-id,

sent-timestamp,

CURRENT-TIMESTAMP AS current-timestamp,

DATE DIFF (second, sent-timestamp, CURRENT-TIMESTAMP) AS seconds-since-sent

FROM Messages;

Messages-id	sent-timestamp	current-timestamp	seconds since-sent
1	2025-04-19 09:32:45	2025-10-13 12:00:00	16,226,895 16,257
2	2025-04-18 23:59:59	2025-10-13 12:00:00	16,257,601

Q13 SELECT return-id,
return-date,
DATEADD(CDAY, 15, return-date) AS restock-date
FROM returns;

return-id	return-date	restock-date
901	2025-04-05	2025-04-20
902	2025-04-01	2025-04-16

Q14 SELECT assign-id,
TO DATE (assigned-on, 'YYYY-MM-DD') AS assigned-on-date
FROM assignments;

assign-id	assigned-on-date
1	2025-03-01
2	2025-03-05

Q15

SELECT meeting-id
TO_CHAR (scheduled-time, 'Month DD, YYYY "at" HH:MI AM')
AS formatted-meeting-time
FROM meetings;

meeting-id	formatted-meeting-time
1	April 19, 2025, at 02:00 PM
2	April 19, at 2025 at 09:30 AM