

DATE FUNCTIONS

Q1

SELECT emp_id,
 name,
 hire_date,
 DATEADD(MONTH, 6, hire_date) AS hire_plus_6_months
 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, '2025-10-11', '2005-08-10') AS age_in_days
 DATEDIFF(day, '2025-10-11', '2004-12-01') AS age_in_days
 DATEDIFF(day, '2025-10-11', '2006-03-15') AS age_in_days
 FROM Students;

student_id	name	age_in_days
101	Maya	7367
102	Ethan	7619
103	Sienna	7150

Q3

```

SELECT event_id,
       event_name,
       DATEDIFF('2024-06-15', '2025-10-11') AS days_remaining
       DATEDIFF('2025-09-01', '2025-10-11') AS days_remaining
       DATEDIFF('2025-01-20', '2025-10-11') AS days_remaining
FROM Events;
    
```

event_id	event_name	days remaining
1	Seminar	483
2	Workshop	40
3	Hackathon	264

Q4

```

SELECT invoice_id,
       issue_date,
       due_date,
       DATEDIFF(day, '2025-03-10', '2025-03-25') AS days_between
       DATEDIFF(day, '2025-04-01', '2025-04-15') AS days_between
       DATEDIFF(day, '2025-04-10', '2025-04-20') AS days_between
FROM Invoices;
    
```

Invoice-id	issue_date	due_date	days between
501	2025-03-10	2025-03-25	15
502	2025-04-01	2025-04-15	14
503	2025-04-10	2025-04-20	10

Q5

```

SELECT course_id,
       name,
       TO_CHAR(2025-05-01, 'YYMM') AS formatted_date
       TO_CHAR(2025-06-01, 'YYMM') AS formatted_date
FROM Courses;
    
```

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

Q6

```

SELECT member_id,
       DATE_FROM_PARTS(2023, 5, 10) AS full_start_date
       DATE_FROM_PARTS(2022, 11, 25) AS full_start_date
FROM Memberships;
    
```

member_id	full_start_date
1	2023-5-10
2	2022-11-25

Q7

```

SELECT sub_id,
       plan,
       DATEADD(Year, 1, '2025-01-01') AS extended_renewal_date
       DATEADD(Year, 1, '2025-03-15') 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('2025-10-11') AS today_date
 DATEDIFF('2025-10-11', '2025-04-15') AS days_since_order
 DATEDIFF('2025-10-11', '2025-04-10') AS days_since_order,
 FROM orders;

Order-id	order-date	today_date	days_since_order
1001	2025-04-15	2025-10-11	179
1002	2025-04-10	2025-10-11	184

Q9

SELECT training-id,
 topic,
 DATE_PART(year, '2025-01-10') AS training-year
 DATE_PART(year, '2025-02-20') AS training-year
 FROM Trainings;

training_id	topic	training-year
1	Safety	2025
2	Compliance	2025

Q10

SELECT post_id,
 title
 EXTRACT(HOUR, '2025-04-01 10:15:00') AS hour_published
 EXTRACT(HOUR, '2025-04-12 16:45:00') AS hour_published
 EXTRACT(MINUTE, '2025-04-10 10:15:00') AS minute_published
 EXTRACT(MINUTE, '2025-04-12 16:45:00') AS minute_published
 FROM Blog_Posts;

post_id	title	hour_published	Minutes_published
1	SQL Tips	10	15
2	Data Cleaning	16	45

Q11

```
SELECT driver_id,
       license_expiry,
       DATEDIFF(day, '2025-10-11', '2025-08-10') AS days_left
       DATEDIFF(day, '2025-10-11', '2023-12-31') AS days_left
FROM Drivers;
```

driver_id	license_expiry	days_left
301	2025-08-10	61
302	2023-12-31	650

Q12

```
SELECT message_id,
       Sent_timestamp,
```

Q13

```

SELECT return_id,
       return_date,
       DATEADD(Day, 15, '2025-04-05') AS restock_date
       DATEADD(Day, 15, '2025-04-01') 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('2025-03-01', 'YYYY-MM-DD') AS assigned_on_date
       TO_DATE('2025-03-05', 'YYYY,MM-DD') AS assigned_on_date
FROM Assignments;
    
```

assign_id	assigned_to_date
1	01 March 2025
2	05 March 2025

Q15

```

SELECT meeting_id,
       TO_CHAR(scheduled_time, '2025-04-19 14:00:00') AS formatted_meeting_time
       TO_CHAR(scheduled_time, '2025-04-19 09:30:00') AS formatted_meeting_time
FROM Meetings;
    
```

Meeting_id	formatted_meeting_time
1	19 April 2025, 2:00 PM
2	19 April 2025, 9:30 AM