

Exercise 5

1. Select *, DateAdd (Month, 6, hire_date) as hire_plus_6_months
 FROM employees;

Employees

| empl_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 |

2. SELECT *, Datediff

Select student_id, name, age_in_days, Datediff (day, dob, 2025-10-13)
 as age_in_days
 FROM Students;

Students

| Student_id | name | age_in_days |
|------------|--------|-------------|
| 101 | Maya | |
| 102 | Ethan | |
| 103 | Sienna | |

3 Select event_id, event_name, days_remaining

Datediff (days, event_date, 2025-10-13) as days_remaining
 FROM events;

events

| event_id | event_name | days_remaining |
|----------|------------|----------------|
| 1 | Seminar | |
| 2 | Workshop | |
| 3 | Hackathon | |

4. Select *, Datediff (day, issue_date, due_date) AS days_between
FROM Invoices;

| Invoices | | | |
|------------|------------|------------|--------------|
| Invoice_id | issue_date | due_date | days_between |
| 501 | 2023-03-10 | 2023-03-25 | |
| 502 | 2023-04-01 | 2023-04-15 | |
| 503 | 2023-04-10 | 2023-04-20 | |

5. Select course_id, name, To_char (start_date, 'month yyyy') AS formatted_date
FROM Courses;

| Courses | | |
|-----------|------------|----------------|
| course_id | name | formatted_date |
| 201 | SQL Basics | May 2023 |
| 202 | Python | June 2023 |

6. Select member_id, Date_from_Parts (start_year, start_month_start)
AS full_start_date
FROM Memberships;

| Member_id | full_start_date |
|-----------|-----------------|
| | 2023-5-10 |
| | 2022-11-25 |

7. Select sub_id, plan, Dateadd (year, 1, renewal_date) AS extended_renewal_date
 FROM subscriptions;

Subscriptions

| Sub_id | Plan | extended_renewal_date |
|--------|---------|-----------------------|
| 11 | Basic | 2026-01-01 |
| 12 | Premium | 2026-03-15 |

8. Select *, Current_date(), Datediff(days, order_date, today_date)
 AS days_since_order
 FROM Orders;

Orders

| Order_id | order_date | today_date | days_since_order |
|----------|------------|------------|------------------|
| 1001 | 2023-04-15 | 2023-10-13 | |
| 1002 | 2023-04-10 | 2023-10-13 | |

9. Select training_id, topic, Datepart (year, training_date) AS training_year
 FROM Training;

Training

| Training_id | topic | training_year |
|-------------|------------|---------------|
| 1 | Safety | 2023 |
| 2 | Compliance | 2023 |

10. Select driver_id,
 Select *, Extract(Hour FROM published_on) AS hour_published,
 Extract(Minute FROM published_on) AS minute_published
 FROM Blog_Post;

| Blog Post | Post_id | title | hour_published | minute_published |
|-----------|---------|---------------|----------------|------------------|
| | 1 | SQL tips | 18 | 15 |
| | 2 | Data cleaning | 16 | 45 |

11. Select *, current_date() AS todays_date, Datediff(day, license_expiry, todays_date)
 FROM Drivers
 AS days_left

| Driver_id | todays_date | days_left |
|-----------|-------------|-----------|
| 301 | 2025-10-13 | |
| 302 | 2025-10-13 | |

12. Select *, current_timestamp() AS current_timestamp
 current_timestamp() - timestamp AS seconds_since_sent
 FROM Messages
 timestampdiff(seconds, current_timestamp, sent_timestamp)
 as seconds_since_sent

| Message_id | Sent_timestamp | Current_timestamp | Seconds_since_sent |
|------------|---------------------|-------------------|--------------------|
| 1 | 2025-04-19 09:32:45 | 15:18:32 | |
| 2 | 2025-04-18 23:59:57 | 15:18:37 | |

13. Select *, Dateadd(day, 15) AS restock_date FROM Returns;
 Returns

| Return_id | Return_date | restock_date |
|-----------|-------------|--------------|
| 901 | 2025-04-05 | 2025-04-20 |
| 902 | 2025-04-01 | 2025-04-16 |

14. Select assign_id, To_date (assigned_on, 'YYYY/MM/DD') As Assigned_on
FROM Assignments;

| Assign_id | assigned_on |
|-----------|-------------|
| 1 | 2025/03/01 |
| 2 | 2025/03/01 |

15. Select meeting_id, To_char (scheduled_time, 'MONTH DD, YYYY
"AT" HH:MM P')
As formatted_meeting_time
FROM Meetings

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