

## Exercise: DATE Functions

Table 1: Employees

Q1

```
Select emp_id,
      name,
      hire_date,
      DATEADD(Month, 6, 'hire_date') AS hire_plus
  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

Table 2: Students

Q2

```
Select student_id,
      name,
      DATEDIFF(Day,
      From students;
```

student_id	name	age_in_days
101	Maya	
102	Ethan	
103	Sienna	

Table 4: INVOICES

Q4

Select invoice\_id,  
 issue\_date,  
 due\_date,  
 DATEIFF (day, issue\_date, due\_date) AS days\_between  
 FROM Invoices;

Invoice_id	issue_date	due_date	days_between
S01	2025-03-10	2025-03-25	15
S02	2025-04-01	2025-04-15	14
S03	2025-04-10	2025-04-20	10

Table 5: Courses

Q5

Select course\_id,  
 name,  
 TO\_CHAR (start\_date, 'Month yy') AS formatted\_date  
 FROM Courses;

Course_id	name	formatted_date
C01	SQL Basics	May 2025
C02	Python	June 2025

Table 6: Memberships

Q6

Select Member\_id,  
 DATE\_FROM\_Parts (start-year, start-month, start-day) AS  
 Full\_start\_date  
 FROM Memberships;

Member_id	Full_Start_date
1	2023-05-10
2	2022-11-25

Table 7: Subscriptions

Q7

Select Sub\_id, Plan,  
 DATEADD (Year, 12, 'renewal\_date') AS extended\_renewal\_date  
 FROM Subscriptions;

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

Table 8: orders

Select order\_id, order\_date,  
 current\_date AS today\_date,  
 DATEDIFF (current\_date, order\_date) AS days\_since\_order  
 FROM orders;

order_id	order_date	today_date	days since order
10BZ	2025-04-15	2025-10-12	180
100Z	2025-04-10	2025-10-12	185

### Table 9: Trainings

Select training\_id, Topic,

DATE\_PART(training\_date, 'year') AS training-year  
FROM Trainings;

training_id	topic	training-year
1	Safety	2023
2	Compliance	2023

### Table 10: Blog\_Posts

Select Post\_id\_title,

EXTRACT(hour, 'Published on') AS hour\_published,

EXTRACT(minutes, 'Published on') AS minutes\_published

FROM Blog\_Posts;

Post_id	Title	hour_published	minutes_published
1	SQL Tips	10	15
2	Debt clearing	16	45

### Table 11: Drivers

Select driver\_id, license\_expiry,

DATEIFF(license\_expiry, today's date) AS days\_left

FROM Drivers;

Drivers_id	license_expiry	days_left
301	2028-08-10	63
302	2023-12-31	68

Table 12: Messages

Select message\_id, sent\_timestamp,  
 current\_timestamp AS current\_timestamp,  
 timestampdiff(second, sent\_timestamp, current\_timestamp)  
 AS seconds\_since\_sent

FROM messages;

Message id	sent_timestamp	current_timestamp	seconds_since_sent
1	2023-04-19 09:35:45	2023-10-12 16:01:29	
2	2023-04-18 23:59:59	2023-10-12 16:02:15	

Table 13: Returns

Select return\_id, return\_date,  
 DATEADD(Day, 15, return\_date) AS restock\_date

FROM returns

return_id	return_date	restock_date
901	2023-04-05	2023-04-20
902	2023-04-01	2023-04-16

## Table 10: Assignments

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

## Table 11: Meetings

Select meeting\_id

To\_char (Scheduled\_time, 'MM-DD-YYYY') AS formatted  
Meeting-time  
From meetings

Meeting_id	formatted_meeting_time
1	APRIL 19 2025 12:00 PM
2	APRIL 19 2025 09:30 AM