

Exercise: DATE Functions

Question 1

➤ Add 6 month to each employee's hire dates

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

Question 2

*// use DATEDIFF() to find age in days from dob today//

SELECT student-id, name, DATEDIFF(day, dob, CURRENT-DATE) As age-in-days
FROM students;

student-id	name	age-in-days
101	Maya	7369
102	Ethan	7621
103	Sienna	7152

Question 3

*// find how many days are left until each event using DATEDIFF().

SELECT event-id, event-name, DATEDIFF(day, CURRENT-DATE, event-date)
As days-remaining,
FROM Events;

event-id	Event-name	days-remaining
1	Seminar	-485
2	workshop	-42
3	Hackathon	-266

Question 4

*// calculate the number of days between issue_date and due_date.

```
SELECT invoice_id, issue_date, due_date, DATEDIFF(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	2025-04-01	2025-04-15	14
503	2025-04-10	2025-04-20	10

Question 5

*// Format start_date as 'Month YYYY' using TO_CHAR().

```
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

Question 6

*// create full date from parts using DATE_FROM_PARTS().

```
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

Question 7

* // Extend each renewal-date by 1 year using DATEADD(

SELECT sub-id, plan, DATEADD(year, 1, renewal-date) As extend-
renewal-date

From SubscriptionSS

Sub-id	plan	Extended-renewal-date
11	Basic	2026-01-07
12	Premium	2026-03-15.

Question 8

* // Show DATE Current

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	2025-04-10	2025-10-13	186

Question 9

* // Extract the year from training-date //

~~Select~~

SELECT training-id, topic, EXTRACT(year FROM training-date)
As training-year,

From Trainings;

Training	Topic	Training-year
1	Safety	2025
2	Compliance	2025

Question 10

*// Extract hour and minutes //

```
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	10	15
2	Data cleaning	16	45

Question 11

*// calculate days left until license expiry & today's date //

```
SELECT driver-id, license_expiry, DATEDIFF(day, CURRENT_DATE,
      license_expiry) AS days-left
FROM Drivers;
```

driver-id	license_expiry	days-left
301	2025-08-10	-64
302	2023-12-31	-652

Question 12

/// current timestamp and seconds

```
SELECT message-id, sent-timestamp, CURRENT_TIMESTAMP AS current-  
timestamp, DATE,  
FROM Message;
```

message-id	sent-timestamp	current-timestamp	seconds-since
1	2025-04-14 09:32:45	2025-10-13 00:00	15238435
2	2025-04-18 23:59:59	2025-10-13 00:00	15292801

Question 13

/// Add 15 days to return-date using DATEADD() to show restock-date

```
SELECT return-id, return-date, DATEADD(day, 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

Question 14

/// convert assigned-on to date using To-DATE() ///

```
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

Question 15

// convert scheduled_time to formatted (month DD, YYYY, HH:MM)

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 2:00 PM
2	April 19, 2025 at 9:30 AM