EXERCISE 5

DATE FUNCTIONS EXERCISE

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 (current-date(), dob) AS Age-in-days
                    ^ DAY,
    FROM students;   (as of 2023-10-12)

student-id	name	Age-in-days
101	Maya	7368
102	Ethan	7620
103	Siena	7151

Q3: SELECT event-id,
        event-name,
        DATEDIFF (DAY, CURRENT-DATE( ), event-date) AS days-remaining
    FROM Events;

event-id	event-name	days remaining
1	Seminar	-484
2	Workshop	-41
3	Heckathon	-266

Q4: SELECT invoice-id,
        issue-date,
        due-date,
        DATEDIFF (due-date, issue-date) AS days-between
                    ^ DAY,
    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 (start-date, 'Month YYYY')
AS formatted-date

FROM courses;

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

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

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's-date
DATEDIFF (DAY, current-date, order-date) AS days-since-order

FROM orders;

order-id	order-date	today-date	days-since-order
1001	2025-04-15	2025-10-12	180
1002	2025-04-10	2025-10-12	185

Q9: SELECT training_id,
           topic,
           EXTRACT (YEAR FROM training_date) AS training_year

FROM Trainings;

OR SELECT training_id,
          topic,
          DATEPART (year, training_date) AS training_year

FROM Trainings;

Training_id	Topic	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	16	45

Q11. SELECT driver_id,
            license expiry,
            DATEDIFF (Day, current_date(), license expiry) AS days left

FROM Drivers;

Driver_id	license Expiry	days_left
301	2025-05-10	-63
302	2023-12-31	-651

Q12: SELECT message_id,
            sent_timestamp,
            CURRENT_TIMESTAMP() AS current_timestamp,
            DATEDIFF ('seconds', sent_timestamp, CURRENT_TIMESTAMP()) AS seconds since sent

FROM messages;

message_id	sent timestamp	current timestamp	seconds since sent
1	2025-04-19 07:32:45	2025-10-12 12:00:00	14504-7965
2	2025-04-18 23:59:59	2025-10-12 12:00:00	17450135-99

Q13: 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

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:`) AS formatted_meeting_time

FROM meetings;

Meeting_Id	Formatted Meeting_Time
1	April 19, 2025 at 02:00 PM
2	April 19, 2025 at 09:30 AM