SQL

Exercise 5   -DATE FUNCTIONS

1. SELECT emp-id,
          name,
          hire-date,
      DATEADD (MONTH, 6, hire-date) AS hire_plus_6_months

2. SELECT   student_id,
            name,
        DATEDIFF (DAY, dob, CURRENT_DATE) AS age-in-days
   FROM   students;

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

①

```sql
3. SELECT event_id
          event_name
          DATEDIFF (event_date, CURRENT DATE) AS days_remaining
   FROM   EVENTS, Events;


4  SELECT invoice_id,
          issue_date,
          due_date;
          DATEDIFF (duedate, issue_date) AS days_between
   FROM   Invoices;


5. SELECT course_id,
          name,
          TO CHAR (start_date, 'Month YYYY') AS formatted_date
   FROM   Courses;


6  SELECT member_id,
          DATE_FROM_PARB (start_year, start_month, start_day)
                AS start_date
   FROM   Memberships;


7  SELECT sub_id,
          plan,
          DATEADD (YEAR, 1, renewal_date) AS extended_date
   FROM Subscriptions;
```

```sql
8.  SELECT  order id,
            order_date,
            CURRENT_DATE  AS  todays_date,
            DATEDIFF  (CURRENT_DATE , order date ) AS ~~~~~~
            days_since_order
    FROM    Orders;
```

```sql
9.  SELECT  training_id,
            topic
            DATE_PART ('year', training date) AS training year
    FROM    Trainings;
```

```sql
10  SELECT  post_id
            title,
            DATE_PART ('hour' publshed _on ) AS hour_published
            DATE_PART ( 'minute, publshed on) AS minute_published
    FROM    Blog_posts;
```

```sql
11.  SELECT  driver_id
             license_expiry,
             DATEDIFF (license_expiry ,current_date) AS
             days_until_expiry
     FROM    Drivers;
```

④

```sql
12.  SELECT message_id,
            sent_timestamp,
        CURRENT_TIMESTAMP AS current_timestamp,
        DATEDIFF (SECOND, sent_timestamp, CURRENT_
                -TIMESTAMP) AS seconds_sent
     FROM messages;


13.  SELECT return_id,
            return_date,
        DATEADD (DAY, 15, return_date) AS restock_date
     FROM Returns


14   SELECT assign_id,
            TO_DATE (assigned_on 'YYYY-MM-DD' AS assigned_on_
                date
     FROM Assignments;


15.  SELECT meeting_id,
        TO_CHAR (scheduled_time, 'Month DD, YYYY "at"
                HH:MI AM') AS formatted_time
     FROM Meetings
```

①

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

②

student_id	name	age_in_days
101	Maya	7365
102	Ethan	7655
103	Sienna	7165

③

event_id	event_name	days_remaining
1	Seminar	-485
2	Workshop	-41
3	Hackathon	-265

④

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

⑤

course_id	name	formatted_date
201	SQL Basics	May 2025
202	Python	June 2025

⑥

member_id	full_start_date
1	2023-05-10
2	2022-11-25

⑦

sub_id	plan	extended_renewal_date
11	Basic	2026-01-01
12	Premium	2026-03-15

⑧

order_id	order-date	todays_date	days-since-order
1001	2025-04-15	2025-10-12	180
1002	2025-04-10	2025-10-12	185

⑨

training_id	topic	training-year
1	Salary	2025
2	Compliance	2025

⑩

post_id	title	hour_published	minute_published
1	SQL Tips	10	15:00
2	Data Cleaning	16	45:00

⑪

driver_id	license_expiry	days_left
301	2025-08-10	-63
302	2023-12-31	-655

⑫

message_id	sent-timestamp	current_timestamp	seconds-since-sent
1	2025-04-19 09:32:45	2025 10-12 18:22:00	15 238 271
2	2025-04-18 23:59:59	2025-10-12 18:22:00	15 272 521

⑬

return_id	return_date	restock_date
901	2025-04-05	2025-04-20
902	2025-04-01	2025-04-16

(14)

assign_id	assigned_on_date
1	2025-03-01
2	2025-03-05

(15)

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