Exercise 5: DATE FUNCTIONS

1. SELECT emp_id,
          name,
          hire_date
   DATE ADD (hire_date, 6, 'months') (MONTH, 6, hire_date) AS hire_plus_6_months
   FROM Employees;

emp_id	name	hire_plus_6_months
1	Alice	2020-07-15
2	Bob	2021-12-10
3	Charlie	2023-09-22

2. SELECT *
   DATEDIFF (days DAY, 'dob', 'CURRENT_DATE) AS age_in_days
   FROM Students;

Student_id	name	age_in_days
101	Maya	7405
102	Ethan	7661
103	Sienn	7159

3. SELECT event_id,
          event_name,
   DATEDIFF (days DAY, CURRENT_DATE, event_date) AS days-remaining
   FROM Events;

event_id	event_name	days_remaining
1	Seminar	-483
2	Workshop	-39
3	Hackathon	-263

4. SELECT *
   DATEDIFF (days DAY, issue_date, due_date) AS days_between
   FROM Invoices;

voice_id	issue_date	due_date	days_between
501	2025-03-10	2025-03-25	15
502	2025-04-01	2025-04-15	14
503	2025-04-01	2025-04-20	10

5. SELECT course_id,
          name,
   TO_CHAR (start_date, 'FMMonth YYYY') AS formatted_date
   FROM Courses;

Course_id	name	formatted_date
201	SQLBas	May 2025
202	Python	June 2024

6. SELECT member_id,
   DATE_FROM_PARTS DATEFROMPARTS (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

7. SELECT sub_id,
          plan,
   DATEADD (YEAR, 1, renewal_date) AS extended renewal_date
   FROM Subscriptions;

Sub_id	plan	extended_renewal_date
11	Basic	2024-01-01
12	Premium	2024-03-15

```
SELECT order_id,
       order_date
CURRENT_DATE AS today_date
DATEDIFF (DAY, order_date, CURRENT_DATE)
DATEDIFF (CURRENT_DATE, order_date) AS days_since_order
FROM Orders;
```

order_id	order_date	today_date	days_since_order
1001	2025-04-15	2025-10-10	178
1002	2025-04-10	2025-10-10	183

9.
```
SELECT training_id,
       topic,
EXTRACT ( Year FROM training_date) AS training_year
FROM Trainings;
```

training_id	topic	training_year
1	Safety	2025
2	Compliance	2025

10.
```
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

11.
```
SELECT *
DATEDIFF (days, CURRENT_DATE, license_expiry) AS days_left
                DAY
FROM Drivers;
```

drivers_id	license_expiry	days_left
301	2025-08-10	-61
302	2023-12-31	-648

12.
```
SELECT *
CURRENT_TIMESTAMP AS current_timestamp
DATEDIFF( seconds, sent_timestamp, CURRENT_TIMESTAMP) AS seconds_sinc
              SECOND                                              _sent
FROM Messages;
```

message_id	sent_timestamp	current_timestamp	second_since_sent
1	2025-04-19 09:32:45	2025-10-10 12:00:00	15223633
2	2025-04-18 23:59:59	2025-10-10 12:00:00	15294479

```
SELECT *
         DAY
DATEADD (days, 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

```
. SELECT assign_id,
    TO_DATE ( assigned_on, 'yyyy-MM-DD') AS assigned_on_date
    FROM Assignments;
```

Assign_id	Assigned_on_date
1	2025-03-10
2	2025-03-05

```
15. SELECT meeting_id,
    TO_CHAR ( scheduled_time, 'FullMonth DAY, yyyy "at" HH:MM PM') AS
                                              DD            MI    AM
         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