

EXERCISE 5: SQL DATE FUNCTIONS

```
1. SELECT      emp-id, name, hire-date,  
               DATEDD (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

```
2. SELECT      student-id, name  
               DATEDIFF (DAY, dob, CURRENT-DATE)  
               AS age-in-days  
FROM           Students;
```


Student-id	name	age-in-days
101	Maya	7388
102	Ethan	7642
103	Sienna	7141

3. SELECT event_id, event_name
 DATEDIFF(DAY, CURRENT-DATE, event_date)
 AS days-remaining
 FROM EVENTS;

event-id	event-name	days-remaining
1	Seminar	-487
2	Workshop	-44
3	Hackathon	-268

4. 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
S01	2025-03-10	2025-03-25	15
S02	2025-04-01	2025-04-15	14
S03	2025-04-10	2025-04-20	10

5. 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

SELECT member-id,
 DATETIMEPARTS (start-year, start-month, start-day)
 AS full-start-date
 FROM Memberships

member-id	full-start-date
1	2023-03-10
2	2022-11-23

8. 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	2023-04-15	2023-10-12	183
1002	2023-04-10	2023-10-15	158

9. SELECT training-id, topic
 Extract (Year FROM training-date)
 AS training-year
 FROM Trainings;

Training-id	topic	Training-year
1	Safety	2023
2	Compliance	2023

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 driver-id, liscense-expiry,
DATEDIFF (DAY, CURRENT-DATE, liscense-expiry)
AS days-left
FROM Drivers

driver-id	license-expiry	days-left
301	2025-08-10	-66
302	2023-12-31	-654

12. SELECT message-id, sent-timestamp
CURRENT-TIMESTAMP AS CURRENT-timestamp
DATEDIFF (second, sent-timestamp, CURRENT-TIMESTAMP)
AS seconds-since-sent
FROM Messages;

message-id	sent-timestamp	current-timestamp	seconds since-sent
1	2025-04-19 09:32:45	2025-10-15 00:00:00	-153 00000
2	2025-04-18 23:59:59	2025-10-15 00:00:01	-1531 0000

13. SELECT return-id, return date
~~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

1
14. SELECT assign-id)
TO-DATE (assigned-on, 'YY-MM-DD') AS assigned-on-date
from Assignments,

assign id	assigned-on-date
1	2025-03-01
2	2025-03-05

15. 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 02:00 PM
2	April 19, 2025 at 09:30 AM