

Exercise: DATE Functions

Table 1: Employees

Q1.

```
SELECT emp-id,  
       name,  
       hire-date,  
       DATEADD(month, 6, hire-date) AS  
       hire-plus-6-months
```

FROM employees;

Output:

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

Table 2: Students

```
SELECT student-id,  
       name,  
       DATEDIFF(DAYDATE, dob, CURRENT_DATE) AS  
       age-in-days
```

FROM students;

student-id	name	age-in-days
101	Mayer	7371
102	Gihan	7643
103	Sienna	7149

Table 3: Events

Q3.

```
SELECT event-id,  
       event-name,  
       DATEDIFF(DAYS, CURRENT-DATEevent-date, event-date)  
       AS days-remaining  
FROM events;
```

Output:

event-id	event-name	days-remaining
1	Seminar	179
2	Workshop	36
3	Workation	260

Table 4: Invoices

Q4.

```
SELECT invoice-id,  
       issue-date,  
       due-date,  
       DATEDATEDIFF(DAYS, 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

Table 5: Courses

Q5.

```
SELECT course-id,  
       name,  
       TO_CHAR(start-date, 'Month YYYY')  
AS formatted-date
```

FROM courses;

Output:

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

Table 6: Memberships

Q6.

```
SELECT member-id,  
       DATE-FROM-PARTS (start-year, start-month,  
                        start-day)
```

AS full-start-date

FROM memberships;

Output:

member-id	full-start-date
1	2023-05-10
2	2022-11-25

Table 7: Subscriptions

Q7.

SELECT sub-id,
plan,
DATEADD (YEAR, 1, renewal-date) AS
extended-renewal-date

FROM subscriptions;

Output:

sub-id	plan	renewal-date
11	Basic	2025-01-01
12	Premium	2025-03-15

Table 8: Orders

Q8.

SELECT order-id,
order-date,
CURRENTDATE AS today-date
DATEDIFF (DAY, order-date, CURRENTDATE)
AS days-since-order

FROM orders;

order-id	order-date	today-date	days-since-order
1001	2025-04-15	2025-10-12	180
1002	2025-04-05	2025-10-12	185

Table 9: Trainings

Q9-

```
SELECT training-id,  
       topic,  
       DATE TIME TIME (YEAR, training-date) AS  
       training-year  
FROM trainings;
```

output:

training-id	topic	training-year
1	Safety	2025
2	Compliance	2025

Table 10: Blog-posts

Q10.

```
SELECT post-id,  
       title,  
       HOUR(published-on) AS hour-published,  
       MINUTE(published-on) AS minute-published  
FROM blog-posts;
```

output:

post-id	title	hour-published	minute-published
1	SQL TIPS	10	15
2	Data cleaning	16	45

Table 11: Drivers

Q11.

```
SELECT driver-id,  
       license-expiry,  
       DATEDIFF(DAY, license-expiry, CURRENT_DATE)  
       AS days-left
```

FROM drivers;

Output:

driver-id	license-expiry	days-left
301	2025-08-10	53
302	2028-12-31	652

Table 12: Messages

Q12.

```
SELECT message-id,  
       sent-timestamp,  
       CURRENT_TIMESTAMP sent-timestamp  
       AS current-timestamp  
       DATEDIFF(SECONDS, sent-timestamp, CURRENT-TIME  
STAMP) AS seconds-since-sent
```

FROM messages;

message-id	sent-timestamp	current-timestamp	seconds-since-sent
1	2025-04-19 09:32:45	2025-10-12 14:16:00	20
2	2025-04-18 23:59:59	2025-10-12 14:15:00	4

Table 13: Returns

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

Table 14: Assignments

Q14.

```
SELECT assign-id,  
       TO-DATE(assigned-on)  
       AS assigned-on-date  
FROM assignments;
```

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

Table 15: Meetings

Q15.

Table 15: Meetings

Q15.

SELECT meeting-id,

TO_CHAR(scheduled-time,

'Month DD, 'YYYY' at 'HH12:MI PM')

AS formatted-meeting-time

FROM meetings;

meeting-id	formatted-meeting-time
1	April 19, 2025 at 2:00 PM
2	April 19, 2025 at 09:30 PM