

Exercise : Date FunctionsTable 3: Events

Q3

```
SELECT event-id,
       event-name,
       DATEDIFF(DAY, '2025-10-12', event-date)
          AS days-remaining
     FROM Events;
```

Output

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

=>event-date - '2025-10-12' =

Table 4: Invoices

Q4

```
SELECT invoice-id,
       issue-date,
       due-date,
       DATEDIFF(DAY, issue-date, due-date)
          AS days-between
     FROM Invoices;
```

Outputs

Invoice-id	issue-date	due-date	days-between
I01	2025-03-10	2025-03-25	15
I02	2025-04-01	2025-04-15	14
I03	2025-04-10	2025-04-20	10

Q1

```
SELECT emp-id,
       name,
       hire-date,
       DATEADD(MONTH, 6, '2020-01-15'),
       DATEADD(MONTH, 6, hire-date)
          AS hire-plus-6-Month
     FROM Employees;
```

Output

emp-id	name	hire-date	hire-plus-6-month
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

Q2

```
SELECT student-id,
       name,
       DATEDIFF(DAY, dob, '2025-10-12')
          AS age-in-days
     FROM Students;
```

Output

Student-id	name	age-in-day
I01	Maya	
I02	Ethan	
I03	Sienna	

Table 5: Courses

Output

Sub-id	Plan	extended_renewal_date
11	Basic	2026-01-01
12	Premium	2026-03-15

Q5 SELECT course_id,

name,

TO_CHAR(start_date, 'Month YYYY')
AS formatted_date

FROM Courses;

Table 8: Orders

Q8

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

Outputs

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

Outputs

Course_id	name	formatted_date
201	SQL Basics	MAY 2025
202	Python	JUNE 2025

Table 6: Memberships

Q6

SELECT member_id,
DATEFROMPARTS(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;

OR

SELECT trainings_id,
topic,
EXTRACT(YEAR FROM training_date)
AS training_Year
FROM Trainings;

Table 12: Messages

Q12

```

SELECT message_id,
       Sent_timestamp,
       CURRENT_TIMESTAMP() AS Current_timestamp,
       DATEDIFF(SECOND, Sent_timestamp, CURRENT_TIMESTAMP())
       (CURRENT_TIMESTAMP()) AS Seconds_since_sent
FROM Messages;
    
```

Outputs

training_id	topic	training-Year
1	Safety	2025
2	Compliance	2025

Outputs

message_id	Sent_timestamp	CurrentTimestamp	Seconds_since_sent
1	2025-04-17 09:32:45	2025-10-12 12:00:00	156,217,95
2	2025-04-18 23:59:59	2025-10-12 12:00:00	156,237,01

Table 13: Returns

Q13

```

SELECT return_id,
       return_date,
       DATEADD(DAY, 15, return_date) AS restock_date
FROM Returns;
    
```

Outputs

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

Q10 SELECT post_id,

title,

EXTRACT(HOUR FROM published_on)
AS hour_published,

EXTRACT(MINUTE FROM published_on)
AS minute_published

FROM Blog_Posts;

Outputs

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

Table 11: Drivers

Q11 SELECT driver_id,
licence_expiry,
DATEDIFF(DAY, licence_expiry, '2025-10-12')
AS days_left
FROM Drivers;

Outputs

driver_id	licence_expiry	days_left
301	2025-08-15	63
302	2023-12-31	652

Table 14: Assignments

Q14 SELECT assign_id,
TO_DATE (assigned_on, 'YYYY-MM-DD')
AS assigned_on_date
FROM Assignments;

Output

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

Table 15: Meetings

Q15

SELECT meeting_id
TO_CHAR (Scheduled_time, 'Month DD, YYYY "at"
HH:MI AM') AS formatted_meeting_time
FROM Meetings;

Outputs

meeting_id	formatted_meeting_time
1	April 17, 2025 at 02:00PM
2	April 17, 2025 at 09:30AM