

Exercise 5: Date functions.

① SELECT

emp_id,

name

hire_date

OR DATEADD (month, 6, hire_date) AS

higher_plus_6-months

FROM Employers;

Emp_id	Name	hire_date plus - 6 - months
1	Alice	2020-07-15
2	Bob	2021-12-10
3	Charlie	2023-09-22

② SELECT

student_id,

name,

DATEDIFF (day, dob, '2025-10-11')

AS age_in_days

FROM students;

Student_id	Name	age_in_days
101	Maya	1363
102	Ethan	1636
103	Sienna	1089

③ Select event - id,
event - name,
DATEDIFF (event - date
from Events;

③ Select event - id,
event - name,
DATEDIFF (event - date , '2025-10-11') AS
days - remaining
from Events;

event - id event - name days - remaining
1 Seminar - 18
2 Workshop - 40
3 Hackathon - 10

② Select student - id,
name,
DATEDIFF (day , dob , '2025-10-11') AS
age - in - days
from Students;

Student - id	name	age - in - days
101	Maya	1363
102	Ethan	1636
103	Sienna	1089

④ Current date: 2025-10-11

④ SELECT event_id,
event_name,
DATEDIFF(day, event_date, '2025-10-11') AS
days_remaining
FROM Events;

event_id	event_name	days_remaining
1	Seminar	-487 in the past
2	Workshop	-41 in the past
3	Hackathon	+01 to come

⑤ 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
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 `SELECT course_id,
name,
CONCAT(start_date, ' Month ', year) AS
formatted_date
FROM courses;`

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

⑥ `SELECT member_id,
DATE_FORMAT(parts(start_year, start_month,
start_day), '%Y-%m-%d') AS fall_start_date,
FROM memberships;`

Member_id	fall_start_date
1	2023-05-10
2	2022-11-25

⑦ `SELECT sub_id,
plan, renewal_date,
renewal_date AS
DATEADD(year, 1, renewal_date)
extended_renewal_date
FROM subscriptions;`

sub_id	plan	renewal_date	extended_renewal_date
11	Basic	2025-01-01	2026-01-01
12	Premium	2025-03-15	2026-03-15

⑧ `SELECT order_id, order_date,`
`CURRENT_DATE AS today_date,`
`DATEDIFF(current_DATE, order_date) AS`
`days_since_order`
`FROM orders;`

order_id	order_date	today_date	days_since
1001	2025-04-15	2025-10-11	179
1002	2025-04-10	2025-10-11	184

⑨ `SELECT training_id,`
`topic,`
`YEAR(training_date) AS training_year`
`FROM trainings;`

training_id	topic	training_year
1	Safety	2025
2	Compliance	2025

⑩ `SELECT post_id,`
`title,`
`HOUR(published_on) AS hour_published`
`MINUTE(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

① `SELECT driver-id,
license-expiry,
DATEDIFF(license-expiry, CURRENTDATE)
AS days-left
FROM Drivers`

driver-id	license-expiry	days-left
301	2025-08-10	-63
302	2023-12-31	-650

② `SELECT message-id,
sent-timestamp,
NOW() AS current-timestamp,
TIMESTAMPDIFF(SECOND, sent-timestamp,
NOW()) AS seconds-since-
sent
FROM Messages`

Message-id	Sent-timestamp	Current-timestamp
1	2025-04-19 09:32:45	2025-10-11 12:00:00
2	2025-04-18 23:59:59	2025-10-11 12:00:00

Seconds-since-sent
-15187515
-15192861

(13) `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

(14) `SELECT assign_id,
 TO_DATE(assign_on, '9999-MM-DD') AS assigned_on_date
FROM Assignments;`

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

(15) `A SELECT meeting_id,
 FORMAT(scheduled_time, 'MMMM dd, yyyy
at hh:mm tt') 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

Assuming it's 2025-10-11