

Exercise 5: DATE Functions

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Question 1

Syntax

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-date-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

Question 2

Syntax

SELECT Student-~~id~~,
name,

DATEDIFF (day, dob, CURRENT-DATE) AS age-in-days

FROM Students;

Output

Student- id	name	age-in-days
101	Maya	(days from 2005-08-10 to today)
102	Ethan	(days from 2004-12-01 to today)
103	Spenna	(days from 2006-03-15 to today)

Question 3

Syntax

SELECT event-id,
event-name,
DATE DIFF (date-event-date, CURRENT-DATE) As day-remaining

From Events;

Output

event- <u>id</u>	event-name	day-remaining
1	Seminar	- 486
2	Workshop	- 42
3	Hackathon	- 266

Question 4

Syntax

SELECT invoice-id,
issue-date,
due-date,
DATE DIFF (day, issue-date, due-date) As days-between

From Invoices;

invoice- <u>id</u>	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

Question 5

SELECT course-id
name

TO_CHAR (start-date, 'month yyyy') As formatted-date

From Courses;

course- <u>id</u>	name	formatted-date
201	SQL Basics	May 2025
202	Python	June 2025

Question 6

SELECT member-ud,
DATE-FROM-PARTS (start-year, start-month, start-day) AS full-start-date
FROM membership

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

Question 7

SELECT sub-ud,
plan,
DATEADD (YEAR, 1, renewal-date) AS extended-renewal-date
FROM subscriptions;

sub-ud	plan	extended-renewal-date
11	Basic	2026-01-01
12	Premium	2026-03-15

Question 8

SELECT order-ud,
order-date
CURRENT_DATE AS today-date,
DATEDIFF (DAY, order-date, CURRENT_DATE) AS days-since-order
FROM ORDERS;

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

Question 9

SELECT training-od,
topic,
EXTRACT (YEAR FROM training-date) AS training year
FROM trainings;

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

Question 10

SELECT post-od,
title,
EXTRACT (HOUR FROM published-on) AS hour-published,
EXTRACT (MINUTE FROM published-on) AS minute-published

FROM Blog-Posts;

Post-od	title	hour-published	minute-published
1	SQL tips	10	15
2	Data Cleaning	16	45

Question 11

SELECT driver-od,
licence-expiry,
DATEDIFF (day, CURRENT_DATE, licence-expiry) AS days-left

FROM drivers

driver-od	licence-expiry	days-plate days-left	days-left
301	2025-08-15	2025-08-12	-63
302	2023-12-31		-651

Question 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	2025-10-12 21:00:00	15,247,635
2	2025-04-18 23:59:59	2025-10-12 21:00:00	15,282,001

Question 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

Question 14

SELECT assign-id,
TO_DATE (assigned-on, 'YYYY-MM-DD') AS assigned-on-date

FROM Assignments.

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

Question 15:

SELECT meeting-od,

TO- Other (scheduled-time, 'Fm Month DA, YYYY' at HH:MM AM) AS
formatted-meeting-time

From meetings;

meeting-od	formatted-meeting-time
1	April 19, 2025 at 2:00 pm
2	April 19, 2025 at 09:30 AM