

Exercise 5: DATE Functions

Malejone Moqhoba

25000NaN

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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,
DATEIFF(date-event_date, LEFTT_DATE) AS day-remaining`

From Events;

Output

event_id	event_name	day-remaining
1	Seminar	- 486
2	Workshop	- 42
3	Hackathon	- 266

Question 4

Syntax

`SELECT issue_id,
issue_date,
due_date,
DATEIFF(day, issue_date, due_date) AS days-between`

From Invoices;

issue_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

Question 5

`SELECT course_id
name`

`TO_CHAR(start_date, 'month yy') AS formatted_date`

From Courses;

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

Question 6

SELECT member_id,
 DATEFROMPARTS (start_year, start_month, start_day) AS full_start_date
 From membership

member_id	full_start_date
1	2023-05-10
2	2022-11-25

Question 7

SELECT sub_id,
 plan,
 DATEADD (YEAR, 1, renewal_date) AS extended_renewal_date
 From Subscriptions;

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

Question 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	2025-04-15	2025-10-12	180
1002	2025-04-10	2025-10-12	185

Question 9

SELECT training_id,
topic,

EXTRACT (YEAR FROM training_date) AS training_year

From trainings;

training_id	topic	training_year
1	safety	2025
2	Compliance	2025

Question 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

Question 11

SELECT driver_id,

licensee_expiry,

DATEDIFF (day, current_date, licensee_expiry) AS days_left

From drivers

driver_id	licensee_expiry	today's_date	days_left
301	2025-08-10	2025-07-12	-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- CHAR (scheduled-time, 'In Month DD, yyyy "at" HH:MM AM') As
formatted-meeting-time

From meetings;

meeting-od	formatted-meeting-time
1	April 19, 2025 at 20:00 PM
2	April 19, 2025 at 09:30 AM