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Returns

Table 13

return_id	return_date
901	2025-04-05
902	2025-04-01

Q 13 SELECT return_id, return_date,
 DATEADD (DAY, 15, '2025-04-05') AS restock_date,
 DATEADD (DAY, 15, '2025-04-01') 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

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

4 SELECT assign_id,
 TO_DATE ('2025-03-01', 'YYYY-mm-dd') AS assigned_on_date
 TO_DATE ('2025-03-05', 'YYYY-mm-dd') AS assigned_on_date
 FROM Assignments



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

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(10)

Exercise : DATE Functions

Table 1

Employees		
emp_id	Name	hire_date
1	Alice	2020-01-15
2	Bob	2021-06-10
3	Charlie	2023-03-22

Q 1 SELECT DATEADD (month, 6, '2020-01-15') AS hire_plus_6_months,
 DATEADD (month, 6, '2021-06-10') AS hire_plus_6_months,
 DATEADD (month, 6, '2023-03-22') AS hire_plus_6_months
 emp_id, name, hire_date
 FROM Employees

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

Ex 2

Students

student_id	Name	dob
101	Maya	2025-08-10
102	Ethan	2004-12-01
103	Sienna	2006-03-15

2 SELECT student_id, name,
 DATEDIFF (DAY, '2025-08-10', '2025-10-13') AS age_in_days,
 DATEDIFF (DAY, '2004-12-01', '2025-10-13') AS age_in_days,
 DATEDIFF (DAY, '2006-03-15', '2025-10-13') AS age_in_days
 FROM Students;

Table 9

Trainings		
training_id	topic	training_date
1	Safety	2025-01-10
2	Compliance	2025-02-20

Q 9 SELECT training_id, topic,
 EXTRACT(YEAR, '2025-01-10') AS training_year,
 EXTRACT(YEAR, '2025-02-20') AS training_year
 FROM Trainings;

training_id	topic	training_year
1	Safety	2025
2	Compliance	2025

Table 10

Blog-Posts

post_id	title	Published-on
1	SQL Tips	2025-04-01 10:15:00
2	Data Cleaning	2025-04-12 16:45:00

10 SELECT post_id, title,
 EXTRACT(hour, '2025-04-01 10:15:00') AS hour_published,
 EXTRACT(HOUR, '2025-04-12 16:45:00') AS hour_published,
 EXTRACT(MINUTE, '2025-04-01 10:15:00') AS minute_published
 EXTRACT(MINUTE, '2025-04-12 16:45:00') AS minute_published
 FROM Blog-Posts

Post-ID	Title	Hour-Published	Minute-Published
1	SQL Tips	10:00	15
2	Data Cleaning	16:00	45

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Drivers

Table 11

driver_id	license_expiry
301	2025-08-10
302	2023-12-31

Q11

SELECT driver_id, license_expiry,
 DATEDIFF(DAY, 2025-08-10, 2025-10-13) AS days_left,
 DATEDIFF(DAY, 2023-12-31, 2025-10-13) AS days_left
 FROM Drivers

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driver_id	license_expiry	days_left
301	2025-08-10	64
302	2023-12-31	652

Table 12

Messages

message_id	Sent-timestamp
1	2025-04-19 09:32:45
2	2025-04-18 23:59:59

Q12

SELECT message_id, sent_timestamp,
 CURRENT_TIMESTAMP,
 TIMESTAMPDIFF(SECOND, '2025-04-19 09:32:45') AS seconds-
 since_sent,
 TIMESTAMPDIFF(SECOND, '2025-04-18 23:59:59') AS seconds-
 since_sent

FROM Messages

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message_id	Sent-timestamp	Current-timestamp	seconds_since_sent
1	2025-04-19 09:32:45	2025-10-13 20:45:00	45
2	2025-04-18 23:59:59	2025-10-13 20:45:00	59

(13)

Subscriptions

Table 7

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

Q7 SELECT sub-id, plan,

DATEADD(YEAR, 1, '2025-01-01') AS extended-renewal-date,

DATEADD(YEAR, 1, '2025-03-15') AS extended-renewal-date

FROM Subscriptions;



sub-id	Plan	extended-renewal-date
11	BASIC	2026-01-01
12	Premium	2026-03-15

Table 8

Orders

order-id	order-date
1001	2025-04-15
1002	2025-04-10

Q8 SELECT order-id, order-date,

CURRENT-DATE AS today-date,

~~DATEIFF~~

DATEIFF(DAY, 2026-04-15, 2025-10-13) AS days-since-order,

DATEIFF(DAY, 2025-04-10, 2025-10-13) AS days-since-order

FROM Orders;



Order-id	Order-date	today-date	days-since-order
1001	2025-04-15	2025-10-13	181
1002	2025-04-10	2025-10-13	186

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Ans 4

Invoice-id	Issue-date	due-date	days-remaining
S01	2025-03-10	2025-03-25	15
S02	2025-04-01	2025-04-15	14
S03	2025-04-10	2025-04-20	10

Tables

Courses

course-id	Name	start-date
201	SQL Basics	2025-05-01
202	Python	2025-06-01

Q 5 SELECT course-id, name,
 TO-CHAR (2025-05-01 , MM-YYYY) AS formatted-date,
 TO-CHAR (2025-06-01 , MM-YYYY) AS formatted-date
 FROM Courses;

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course-id	Name	start-date	formatted-date
201	SQL Basics	2025-05-01	05-2025
202	Python	2025-06-01	06-2025

Tables

Memberships

member-id	start-year	start-month	start-day
1	2025	5	10
2	2022	11	25

Q 6 SELECT member-id,
 DATE-FROM-PARTS (2023 , 05 , 10) AS full-start-date,
 DATE-FROM-PARTS (2022 , 11 , 25) AS full-start-date
 FROM Memberships;

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

student_id	Name	Age-in-days
101	Maggie	64
102	Ethan	7560
103	Sienna	7091

Table 3

Events

event_id	event_name	event_date
1	Seminar	2024-06-15
2	Workshop	2025-09-01
3	Hackathon	2025-01-20

Q3 SELECT event_id, event_name;

DATEDIFF(DAY, '2024-06-15', '2025-10-13') AS days_remaining,

DATEDIFF(DAY, '2025-09-01', '2025-10-13') AS days_remaining,

DATEDIFF(DAY, '2025-01-20', '2025-10-13') AS days_remaining

FROM Events;



event_id	event_name	days_remaining
1	Seminar	485
2	Workshop	42
3	Hackathon	266

Table 4

Invoices

invoice_id	issue_date	due_date
501	2025-03-10	2025-03-25
502	2025-04-01	2025-04-15
503	2025-04-10	2025-04-20

4 SELECT invoice_id, issue_date, due_date;

DATEDIFF(DAY, '2025-03-10', '2025-03-25') AS days_between,

DATEDIFF(DAY, '2025-04-01', '2025-04-15') AS days_between,

DATEDIFF(DAY, '2025-04-10', '2025-04-20') AS days_between

FROM Invoices;



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Meeting 3

Table 15

<u>meeting_id</u>	<u>scheduled_time</u>
1	2025-04-19 14:00:00
2	2025-04-19 09:30:00

Q15 SELECT meeting_id,

TO_CHAR ('2025-04-19 14:00:00', 'YY-MM-DD HH-MM-SS') AS
formatted_meeting_time,TO_CHAR ('2025-04-19 09:30:00', 'YY-MM-DD HH-MM-SS')
formatted_meeting_time

FROM meetings;

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<u>meeting_id</u>	<u>formatted_meeting_time</u>
1	April 19, 2025 at 14:00 PM
2	April 19, 2025 at 09:30 AM

