Exercise 5: Date Functions

Q1 Select emp_id, name, hire date,
dateAdd (month, 6, hire_date) as hire
plus 6 months
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

Q2 Select student_id, name, date diff (Day,
dob, Get date ()) as age ~~from students~~
From students

Student id	name	dob	age in days
101	Maya	2005-08-10	7380
102	Ethan	2004-12-01	7626
103	Sienna	2005-03-15	7137

Q3. ~~Select event id, event name, Date diff (Day,~~
select event id, event name, current date
date diff (Day, event_date, current date)
as days remaining

Eventid	event name	days remaining
1	Seminar	-485
2	Workshop	-42
3	Hackathon	-266

Q4 Select invoice_id, issue_date, due date
~~Date~~ Date Diff (Day, issue_date, due_date)
As days_between
From invoices

invoice_id	issue date	due date	days_between
5c1	2025-03-10	2025-03-25	15
5c2	2025-04-01	2025-04-15	14
5c3	2025-04-10	2025-04-20	10

Q5 Select course_id, name, To_char (start-date
'Month YYYY') as formatted date
From courses

course_id	Name	Startdate	Formatted date
2c1	SQL basics	2025-05-01	May 2025
2c2	Python	2025-06-01	June 2025

Q6. Select member_id, Date From parts (start_
day, start_month$_m$, start year) as full start
date

Member id	Full start date
1	10 - 5 - 2023
2	25 - 11 - 2022

Q7 Select sub_id, plan,
date add (Year, 1, renewal date) as extended
renewal date

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

~~Q8 Select order_id, current date faciol C~~

Q8 Select order_id, order_date, current date
() as today_date
~~Date~~ Date diff (Day, order date, Current_date)
as days since order
From orders

Order id	order_date	today-date	days since order
1001	2025-04-01	2025-10-13	181
1002	2025-04-10	2025-10-13	186

Q9 Select training_id, topic, extract (Year from
training_date) as training_year
From trainings;

training id	topic	training_date	training year
1	Safety	2025-01-10	2025
2	Compliance	2025-02-20	2025

Q10. Select post_id, title, Extract (hour from
published on) as hour published, extract (
minutes 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

q11 Select driver_id, license expiry, current
date
Date diff (Day, license expiry, current date)
as days left
~~drive~~ From drivers

Driver_id	license expiry	days left
301	2025-08-10	-64
302	2023-12-31	-652

Assume today's date is 13 Oct 2025

2 Select message_id, sent timesamp, current_
timestamp as current_timestap,
Date Diff (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	2025-10-13 00:00:00	
2	2025-04-18 23:59.59	2025-10-13 00:00:00	

Select return_id, return_date
te Add (Day, 15, return date) as restock date
cm returns

Return id	return date	restock date
901	2025-04-05	2025-04-20
902	2025-04-01	2025-04-18

Q14 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

Q15 Select meeting id, To char (scheduled_time,
Month DD, YYY "at"

Meeting id	scheduled at time	formatted meeting time
1	2025-04-19 14:00:00	April 19 2025 at 2:00 Pm
2	2025-04-19 09:30:00	April 19, 2025 at 9:30 Aam