Belinda Thando Mhlanga

Bright Learn Analytics
Date Functions   Exercise 5

Table 1

```
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	2025-03-22	2023-09-22

outcome

Table 2

```
SELECT  student_id
        name
        Datediff (Day , dob , Getdate()) As age_in_days
FROM   student;
```

└Today's date = 13/10/2025

student_id	age_in_days
101	7369
102	7621
103	7152

outcome

Table 3

```
SELECT    event.id
          event_name
          days_remaining
          Datediff ( Day , Getdate() , event_date ) AS days-remain
FROM   events;
```

Event id	event_name	days_remaining
1	Seminar	— 485
2	workshop	— 45
3	Hackathon	— 266

outcome

Today : 13/10/2025

Table 4   Invoices

```
SELECT    invoice_id,
          issue_date,
          due_date,
          Datediff ( DAY, issue_date, due_date ) AS days-between

FRROM   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

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Table 5

```
SELECT course_id
       name
       To chain (start_date, 'Month YYYY') As formatted_da

. FROM courses;
```

Course_ld	name	formated-date
201	SQL Basics	May 2025
202	Python	June 2025

Table 6

```
SELECT member_id
       DATEFROMPARTS (start-year, start-month, start-day) As full_start-date

FROM Membership;
```

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

Table 7

```
SELECT (Sub_id,
        Plan
        DateAdd (year, 1, renewal_date)
.
FROM Subscriptions;
```

Sub id	Plan	extended-renewal date
11	Basic	2026-01-01
12	Premium	2026-03-15

Table 8 orders

```
Select order_id,
       order_date
       CURRENT DATE AS today_date,
       DATEDIFF (DAY, CURRENTDATE, order_date) AS
       days_since_order
```

Resultoutcome :

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

Table 9

```
SELECT training_id,
       topic,
       DATEPART ( 'YEAR', training-date ) AS training_
       yar

FROM Trainings;
```

tranig-id	topic	training-year
1	Safety	2025
2	Compliance	2025

Table 10

```
SELECT post_id
       title
       DATEPART ('Hour', published_on) AS hour_published
       DATE PART ('Minute', published_on) AS minute_publist

FROM Blog Posts;
```

post_id	title	hour_published	minute_published
1	SQL Tips	10	15
2	Data Cleaning	16	45

Table 11

```
SELECT    driver_id,
          licence_expiry
          DATEDIFF ( DAY, Getdate() ) , licence_expiry AS days_left

FROM   Drivers ;
```

driver_id	licence_expiry	days_left
301	2025-08-10	-64
302	2023-12-31	-654

Table 12

```
SELECT  message_id
        Sent_timestamp,
        GETDATE() AS current_timestamp
        DATEDIFF (SECOND, Sent_timestamp, GETDATE()) 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 14:00:00	15 309 075
2	2005-4-18 23:59:59	2025-10-13 14:00.00	15 343 201