Case Study Queries

1.Query to us the name of different store locations.

```sql
--Query 1: to show us name of different stores/locations
SELECT DISTINCT store_location, store_id
FROM coffeeshopanalysis;
```

Add parameter

Table +

	store_location	store_id
1	Lower Manhattan	5
2	Hell's Kitchen	8
3	Astoria	3

2. Query to calculate the number of coffee shops

```sql
--Query 2: to calculate the number of coffee shops
SELECT COUNT(DISTINCT STORE_ID) AS number_of_coffeeshops
FROM coffeeshopanalysis;
```

Add parameter

Table +

	number_of_coffeeshops
1	3

3. Query to calculate total revenue by store location.

```sql
-- Query to calculate total revenue by store location.
SELECT store_location,
       round(SUM(unit_price*transaction_qty),2) AS total_revenue
FROM coffeeshopanalysis
GROUP BY store_location;
```

Add parameter

Results 3 of 3 Table +

	store_location	total_revenue
1	Lower Manhattan	230057.25
2	Hell's Kitchen	236511.17
3	Astoria	232243.91

4. Query to determine the time at which the store opens.

```
15  --Query to determine what time the store opens/when first order is placed.
16  SELECT min(transaction_time)  AS opening_time
17  FROM coffeeshopanalysis;
```

Add parameter

Results 4 of 4 | Table | +

	opening_time
1	2025-10-21T06:00:00.000+00:00

5. Query to determine the first day of store operations.

```
19  --Query to determine the first day of operations by store location
20  SELECT min(transaction_date) AS first_day_of_purchase, store_location
21  FROM coffeeshopanalysis
22  GROUP BY store_location;
```

Add parameter

Results 5 of 5 | Table | +

	first_day_of_purchase	store_location
1	2023-01-01	Lower Manhattan
2	2023-01-01	Hell's Kitchen
3	2023-01-01	Astoria

6. Query to determine the time last order was placed and closure time.

```
24  --Query to determine the time at which  the store closes
25  SELECT max(transaction_time) AS closing_time, store_location
26  FROM coffeeshopanalysis
27  GROUP BY store_location;
```

Add parameter

Results 6 of 6 | Table | +

	closing_time	store_location
1	2025-10-21T20:28:03.000+00:00	Lower Manhattan
2	2025-10-21T20:59:32.000+00:00	Hell's Kitchen
3	2025-10-21T19:59:54.000+00:00	Astoria

7. Query to calculate revenue per product category at different times of the day.

```sql
--Query to calculate revenue per product category at different times of the day.
select product_category,
       SUM(transaction_qty*unit_price) AS revenue,
       store_location,
       transaction_date,
       transaction_time,
CASE
    When transaction_time between '06:00:00' AND '11:59:59' THEN 'Morning'
    When transaction_time between '12:00:00' AND '15:59:59' THEN 'Afternoon'
    When transaction_time between '16:00:00' AND '19:59:59' THEN 'Evening'
    When transaction_time>='20:00:00' THEN 'Night'
END AS time_bucket
FROM coffeeshopanalysis
GROUP BY product_category, store_location, transaction_date, transaction_time
ORDER BY revenue DESC;
```

```sql
--Query to calculate revenue per product category at different times of the day.
select product_category,
```

Add parameter

Results 7 of 7 | Table | +

	product_category	revenue	store_location	transaction_date	transaction_time	time_bucket
1	Coffee beans	360	Hell's Kitchen	2023-05-17	2025-10-21T11:18:31.000+00:...	Morning
2	Coffee beans	360	Hell's Kitchen	2023-04-17	2025-10-21T11:18:31.000+00:...	Morning
3	Coffee beans	360	Hell's Kitchen	2023-05-17	2025-10-21T09:05:20.000+00:...	Morning
4	Coffee beans	360	Hell's Kitchen	2023-06-17	2025-10-21T09:55:47.000+00:...	Morning
5	Coffee beans	360	Hell's Kitchen	2023-06-17	2025-10-21T10:41:11.000+00:...	Morning
6	Coffee beans	360	Hell's Kitchen	2023-06-17	2025-10-21T11:18:31.000+00:...	Morning
7	Coffee beans	360	Hell's Kitchen	2023-01-17	2025-10-21T09:05:20.000+00:...	Morning
8	Coffee beans	360	Hell's Kitchen	2023-06-30	2025-10-21T11:18:31.000+00:...	Morning
9	Coffee beans	360	Hell's Kitchen	2023-04-17	2025-10-21T09:55:47.000+00:...	Morning
10	Coffee beans	360	Hell's Kitchen	2023-01-17	2025-10-21T09:55:47.000+00:...	Morning

8. Query to visualize revenue by month, by store location and by product category.

```sql
--Query to visualise revenue per month, per store, per category.

SELECT transaction_date,
       year(transaction_date) AS Year,
       month(transaction_date) AS Month,
       monthname(transaction_date) AS month_name,
       dayname (transaction_date) AS day_name,
       store_location,
       sum(transaction_qty*unit_price) AS revenue
FROM coffeeshopanalysis
GROUP BY ALL;
```

Add parameter

Results 8 of 8 | Table | +

	transaction_date	Year	Month	month_name	day_name	store_location	revenue
1	2023-01-01	2023	1	Jan	Sun	Lower Manhattan	788.35
2	2023-01-01	2023	1	Jan	Sun	Hell's Kitchen	851.45
3	2023-01-01	2023	1	Jan	Sun	Astoria	868.4
4	2023-01-02	2023	1	Jan	Mon	Lower Manhattan	649.05
5	2023-01-02	2023	1	Jan	Mon	Hell's Kitchen	828.8
6	2023-01-02	2023	1	Jan	Mon	Astoria	925.5
7	2023-01-03	2023	1	Jan	Tue	Lower Manhattan	756
8	2023-01-03	2023	1	Jan	Tue	Hell's Kitchen	906.25
9	2023-01-03	2023	1	Jan	Tue	Astoria	902.75
10	2023-01-04	2023	1	Jan	Wed	Lower Manhattan	630.2