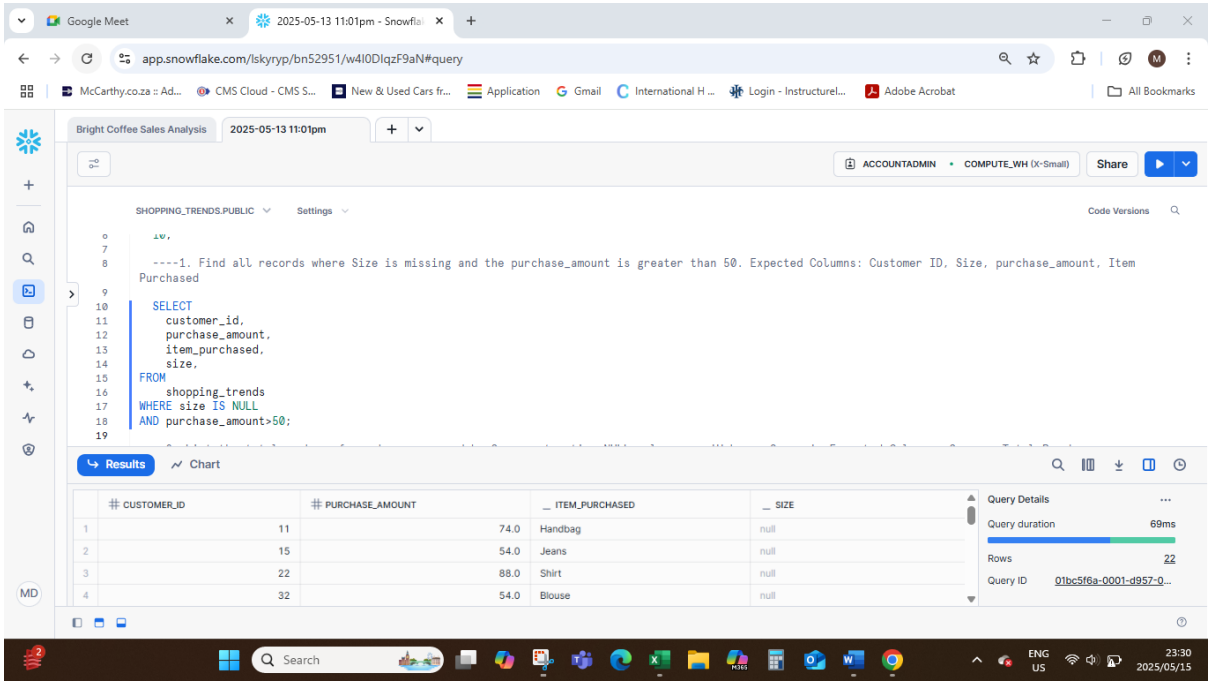
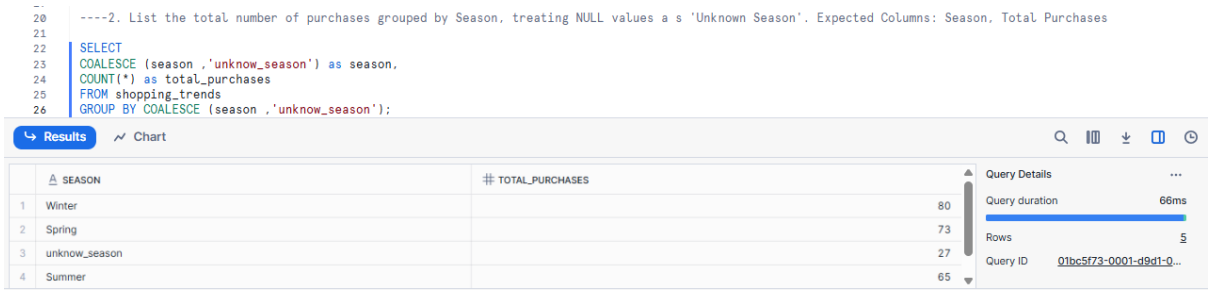
Mendiso Moyo

Null Funtions Practical

1.Find all records where Size is missing and the purchase_amount is greater than 50. Expected Columns: Customer ID, Size, purchase_amount, Item Purchased



1. List the total number of purchases grouped by Season, treating NULL values a s 'Unknown Season'. Expected Columns: Season, Total Purchases



2. Count how many customers used each Payment Method, treating NULLs as 'Not Provided'. Expected Columns: Payment Method, Customer Count

```sql
----3. Count how many customers used each Payment Method, treating NULLs as 'Not Provided'. Expected Columns: Payment Method, Customer Count

SELECT
COALESCE (payment_method ,'not_provided') as payment_method,
COUNT (DISTINCT customer_id) as customer_count
FROM shopping_trends
GROUP BY COALESCE (payment_method,'not_provided');
```

Results | Chart

	PAYMENT_METHOD	CUSTOMER_COUNT
1	PayPal	51
2	Debit Card	42
3	not_provided	30
4	Bank Transfer	38
5	Credit Card	44

Query Details
Query duration 355ms
Rows 7
Query ID 01bc5f76-0001-d9da-0...
Show more

4. Show customers where Promo Code Used is NULL and Review Rating is below 3.0. Expected Columns: Customer ID, Promo Code Used, Review Rating, Item Purchased

```sql
----4. Show customers where Promo Code Used is NULL and Review Rating is below 3.0. Expected Columns: Customer ID, Promo Code Used, Review Rating, Item Purchased

SELECT
    customer_id,
    promo_code_used,
    review_rating,
    item_purchased
FROM shopping_trends
WHERE promo_code_used IS NULL;
```

Results | Chart

	CUSTOMER_ID	PROMO_CODE_USED	REVIEW_RATING	ITEM_PURCHASED
1	1	null	3.7	Jeans
2	12	null	4.1	Sneakers
3	21	null	2.5	Jeans
4	24	null	4.5	Shorts
5	27	null	null	Blouse
6	33	null	null	null

Query Details
Query duration 377ms
Rows 40
Query ID 01bc5f77-0001-d9bc-0...
Show more

5. Group customers by Shipping Type, and return the average purchase_amount, treating missing values as 0. Expected Columns: Shipping Type, Average purchase_amount

```sql
----5. Group customers by Shipping Type, and return the average purchase_amount, treating missing values as 0. Expected Columns: Shipping Type, Average purchase_amount

SELECT shipping_type,
    AVG(COALESCE(purchase_amount,0)) as Average_Purchase_Amount,
FROM shopping_trends
GROUP BY shipping_type;
```

Results | Chart

	SHIPPING_TYPE	AVERAGE_PURCHASE_AMOUNT
1	Standard	47.6666667
2	Store Pickup	55.3333333
3	null	52.7037037
4	Express	53.4545455
5	2-Day Shipping	51.5576923
6	Free Shipping	50.2142857

Query Details
Query duration 91ms
Rows 7
Query ID 01bc5f79-0001-d957-0...
Show more

6. Display the number of purchases per Location only for those with more than 5 purchases and no NULL Payment Method. Expected Columns: Location, Total Purchases.

7. Create a column Spender Category that classifies customers using CASE: 'High' if amount > 80, 'Medium' if BETWEEN 50 AND 80, 'Low' otherwise. Replace NULLs in purchase_amount with 0. Expected Columns: Customer ID, purchase_amount, Spender Category

8. Find customers who have no Previous Purchases value but whose Color is not NULL. Expected Columns: Customer ID, Color, Previous Purchases