#### Akilesh K

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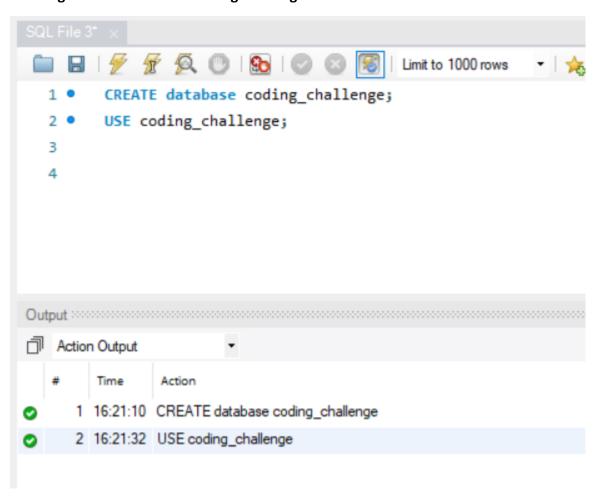
Data engineering - Batch 1

Date: 25-01-24

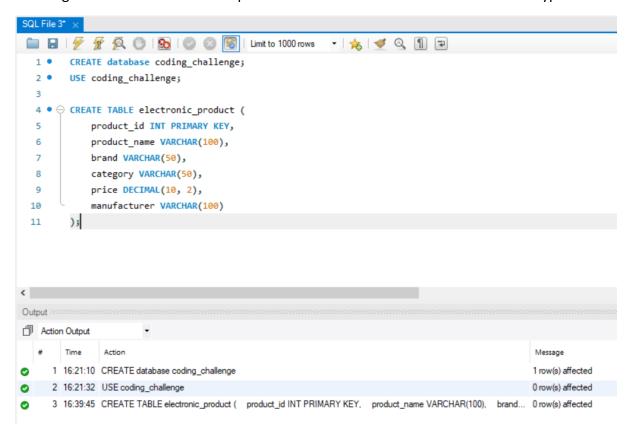
### **CODING CHALLENGE**

- A) Execute OVER and PARTITION BY Clause in SQL Queries
- B) creating subtotals &Total Aggregations using SQL Queries.

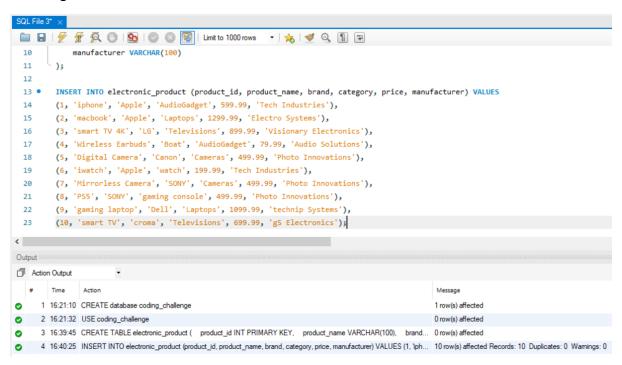
# Creating a database named coding challenge



# Creating a table named electronic product with a structured schema and its datatypes

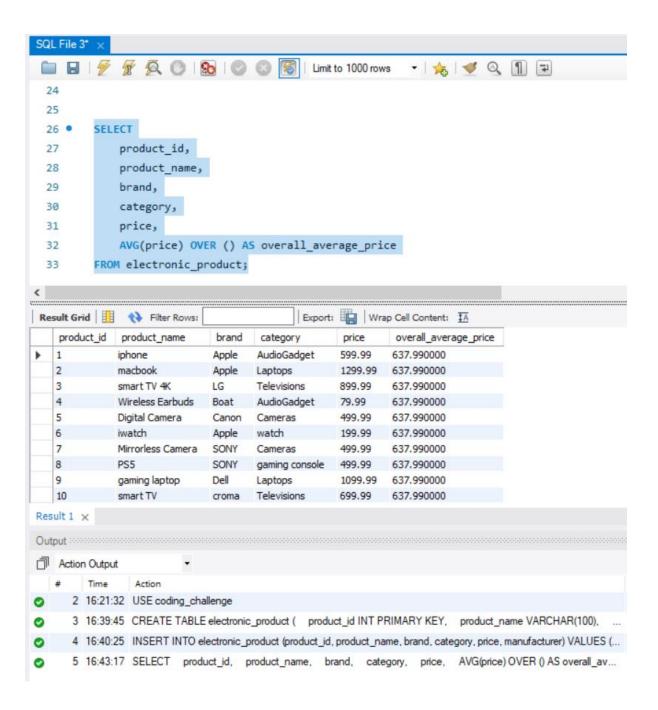


# Inserting values into the table



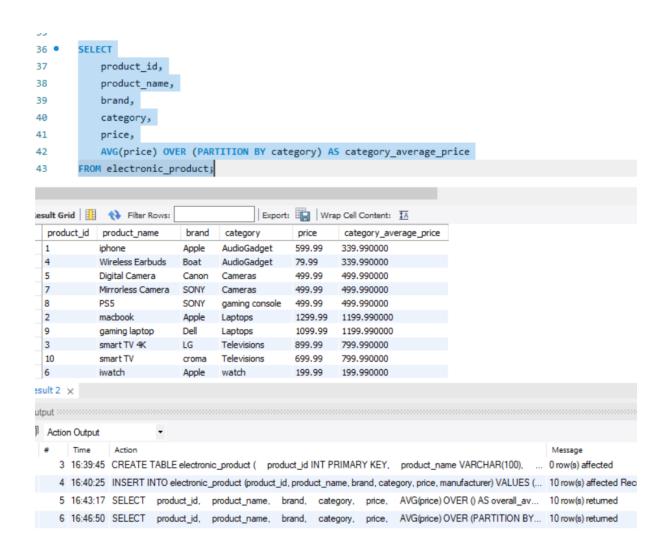
#### **OVER**

SQL query is using the OVER clause with a window function to calculate the overall average price for each row in the electronic product table.



#### **PARTITION**

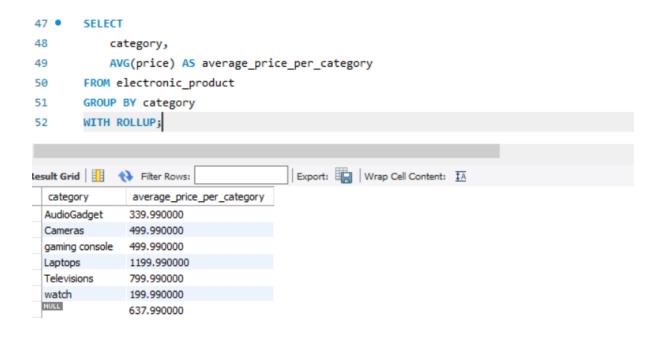
The PARTITION BY category clause divides the result set into groups based on the category column. The AVG(price) function is then applied independently within each partition, giving the average price for each category.



#### TOTAL AND SUBTOTAL USING AGGREGATION

### **AVG USING ROLLUP**

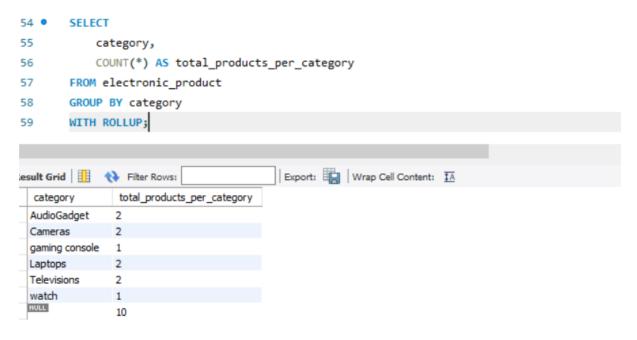
The query calculates the average price for each product category and includes subtotals for each category and a grand total using the WITH ROLLUP clause.

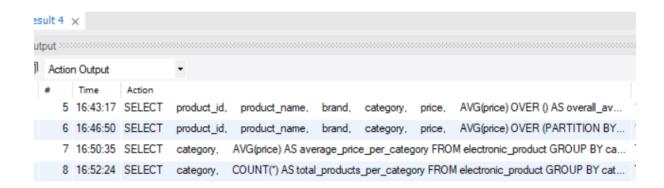




## **COUNT USING ROLLUP**

The result set will include counts for each unique category and additional rows for subtotals and a grand total.





### **SUM USING ROLLUP**

```
SELECT
62
             category,
             SUM(price) AS sum_price_per_category
63
        FROM electronic_product
        GROUP BY category
65
66
        WITH ROLLUP;
                                           Export: Wrap Cell Content: IA
Result Grid | 🔢 💎 Filter Rows:
  category
              sum_price_per_category
  AudioGadget
                679.98
  Cameras
              999.98
  gaming console 499.99
  Laptops
             2399.98
  Televisions
                1599.98
                199.99
  watch
  NULL
                6379.90
```

