

## SQL Query Results - Task 3 (Data Analysis)

### Top 5 Most Expensive Order Items for a Specific Seller

|   | order_id                         | product_id                       | price  |
|---|----------------------------------|----------------------------------|--------|
| 1 | b3840eac3cf88799d05e845cf9b8587b | 5e864d9858dc9a7b55f937ed8998ffe8 | 269.9  |
| 2 | 79b57d07c97ba24547cc8ec969785e64 | 5e864d9858dc9a7b55f937ed8998ffe8 | 259.4  |
| 3 | 54f17a6fb99f59adc37b22166a7f1871 | 3a135477bf41350a0b1d8afdf616d446 | 185.03 |
| 4 | a45087c16cf11897252052baabb332c0 | 3a135477bf41350a0b1d8afdf616d446 | 149.9  |
| 5 | f9c50aff44ed91808d5b511bd49106ec | 3a135477bf41350a0b1d8afdf616d446 | 149.9  |

### Total Revenue per Product Category

|    | category              | total_revenue |
|----|-----------------------|---------------|
| 1  | health_beauty         | 1258681.34    |
| 2  | watches_gifts         | 1205005.68    |
| 3  | bed_bath_table        | 1036988.68    |
| 4  | sports_leisure        | 988048.97     |
| 5  | computers_accessories | 911954.32     |
| 6  | furniture_decor       | 729762.49     |
| 7  | cool_stuff            | 635290.85     |
| 8  | housewares            | 632248.66     |
| 9  | auto                  | 592720.11     |
| 10 | garden_tools          | 485256.46     |
| 11 | toys                  | 483946.6      |
| 12 | baby                  | 411764.89     |
| 13 | perfumery             | 399124.87     |
| 14 | telephony             | 323667.53     |
| 15 | office_furniture      | 273960.7      |
| 16 | stationery            | 230943.23     |
| 17 | computers             | 222963.13     |
| 18 | pet_shop              | 214315.41     |
| 19 | musical_instruments   | 191498.88     |
| 20 | small_appliances      | 190648.58     |

## Average Review Score by State (Customer State)

|    | customer_state | avg_review_score |
|----|----------------|------------------|
| 1  | AP             | 4.19             |
| 2  | PR             | 4.18             |
| 3  | AM             | 4.18             |
| 4  | SP             | 4.17             |
| 5  | MG             | 4.14             |
| 6  | RS             | 4.13             |
| 7  | MS             | 4.12             |
| 8  | RN             | 4.11             |
| 9  | TO             | 4.1              |
| 10 | MT             | 4.1              |
| 11 | SC             | 4.07             |
| 12 | DF             | 4.06             |
| 13 | RO             | 4.05             |
| 14 | AC             | 4.05             |
| 15 | GO             | 4.04             |
| 16 | ES             | 4.04             |
| 17 | PB             | 4.02             |
| 18 | PE             | 4.01             |

## Top Customer States by Total Number of Orders (with WHERE filter)

|    | customer_state | total_orders |
|----|----------------|--------------|
| 1  | SP             | 40501        |
| 2  | RJ             | 12350        |
| 3  | MG             | 11354        |
| 4  | RS             | 5345         |
| 5  | PR             | 4923         |
| 6  | SC             | 3546         |
| 7  | BA             | 3256         |
| 8  | DF             | 2080         |
| 9  | ES             | 1995         |
| 10 | GO             | 1957         |
| 11 | PE             | 1593         |
| 12 | CE             | 1279         |
| 13 | PA             | 946          |
| 14 | MT             | 886          |
| 15 | MA             | 717          |
| 16 | MS             | 701          |
| 17 | PB             | 517          |
| 18 | PI             | 476          |
| 19 | RN             | 474          |
| 20 | AL             | 397          |
| 21 | SE             | 335          |

## Total Payment Value by Payment Type

|   | payment_type | transaction_count | total_value |
|---|--------------|-------------------|-------------|
| 1 | credit_card  | 76795             | 12542084.19 |
| 2 | boleto       | 19784             | 2869361.27  |
| 3 | voucher      | 5775              | 379436.87   |
| 4 | debit_card   | 1529              | 217989.79   |
| 5 | not_defined  | 3                 | 0.0         |

## Create a View: Category-wise Sales

|    | category                        | total_revenue |
|----|---------------------------------|---------------|
| 1  | agro_industry_and_commerce      | 72530.47      |
| 2  | air_conditioning                | 55024.96      |
| 3  | art                             | 24202.64      |
| 4  | arts_and_craftmanship           | 1814.01       |
| 5  | audio                           | 50688.5       |
| 6  | auto                            | 592720.11     |
| 7  | baby                            | 411764.89     |
| 8  | bed_bath_table                  | 1036988.68    |
| 9  | books_general_interest          | 46856.88      |
| 10 | books_imported                  | 4639.85       |
| 11 | books_technical                 | 19096.06      |
| 12 | cds_dvds_musicals               | 730.0         |
| 13 | christmas_supplies              | 8800.82       |
| 14 | cine_photo                      | 6933.46       |
| 15 | computers                       | 222963.13     |
| 16 | computers_accessories           | 911954.32     |
| 17 | consoles_games                  | 157465.22     |
| 18 | construction_tools_construction | 144677.59     |
| 19 | construction_tools_lights       | 41080.0       |
| 20 | construction_tools_safety       | 40544.52      |
| 21 | cool_stuff                      | 635290.85     |

## Subquery: Orders Above Average Payment

|    | order_id                         | payment_value |
|----|----------------------------------|---------------|
| 1  | 1f78449c87a54faf9e96e88ba1491fa9 | 341.09        |
| 2  | d88e0d5fa41661ce03cf6cf336527646 | 188.73        |
| 3  | 12e5cfe0e4716b59afb0e0f4a3bd6570 | 157.45        |
| 4  | 8ac09207f415d55acff302df7d6a895c | 244.15        |
| 5  | 4214cda550ece8ee66441f459dc33a8c | 170.57        |
| 6  | 4d680edbba7d3d9bed69532957368a03 | 353.09        |
| 7  | 8cd68144cdb62dc0d60848cf8616d2a4 | 330.66        |
| 8  | d0a945f85ba1074b60aac97ade7e240e | 541.0         |
| 9  | 5d9c5817e278892b7498d90bfa28ade8 | 290.16        |
| 10 | b69b9260e79a0da00e15f48de1bd2524 | 283.34        |
| 11 | b2bb080b6bc860118a246fd9b6fad6da | 173.84        |
| 12 | 1dcf0c8cd36ffaf57784fbdc90079310 | 157.15        |
| 13 | c10d412026c4077b8e83acf0fea04eee | 266.16        |
| 14 | d574338f566ca28dd67820f48ec1f1d8 | 278.22        |
| 15 | 2e2c60b99754ae1e4d8b18846cfec9f2 | 542.66        |
| 16 | 1ffb3c1929b16d9c1aec1958e11b3e9b | 166.04        |
| 17 | 95442deb81a5d91c97c0df96b431634a | 368.98        |
| 18 | 3ab4eea6776259ae8dfbabaeffece352 | 387.8         |
| 19 | c108072ab31ec90a754129c171577f5f | 210.82        |
| 20 | 110d9355d6338eab0a65a0cacdde5434 | 566.4         |
| 21 | 42f5954cda381bd032934ee38c453711 | 402.42        |

## Indexing

|   | name                          | tbl_name       | sql                                     |
|---|-------------------------------|----------------|---|
| 1 | idx_order_items_seller_id     | order_items    | CREATE INDEX ...                        |
| 2 | idx_orders_purchase_timestamp | orders         | CREATE INDEX ...                        |
| 3 | idx_products_category_name    | products       | CREATE INDEX ...                        |
| 4 | idx_order_reviews_score       | order_reviews  | CREATE INDEX idx_order_reviews_score... |
| 5 | idx_order_payments_value      | order_payments | CREATE INDEX idx_order_payments_valu... |