PRODUCT ANALYSIS USING SQL

What is the total revenue generated by each product category?

```sql
SELECT product_category,
ROUND(SUM(total), 2) AS Revenue
FROM orders
JOIN products
ON orders.product_id = products.product_id
GROUP BY product_category;
```

product_category	Revenue
Office Supplies	342518.02
Technology	831273.73
Furniture	31920.3

WHAT PRODUCT CATEGORY HAS THE LOWEST AVERAGE PRICE OF PRODUCTS?

```
SELECT product_category,
    ROUND(AVG(retail_price), 2)
Average_price
FROM orders
JOIN products
USING(product_id)
GROUP BY product_category
ORDER BY Average_price
LIMIT 1;
```

product_category	Average_price
Office Supplies	17.9

WHAT ARE THE TOP 10 HIGHEST PERFORMING PRODUCTS?

```
SELECT product_name,
    ROUND(SUM(total), 2) Revenue
FROM orders
JOIN products
USING(product_id)
GROUP BY product_name
ORDER BY Revenue DESC
LIMIT 10;
```

product_name	Revenue
HFX LaserJet 3310 Copier	200640.85
Adesso Programmable 142-Key Keyboard	75413.62
Emerson Stylus 1520 Color Inkjet Printer	70482.07
UGen Ultra Professional Cordless Optical Suite	68699.41
Multimedia Mailers	45311.01
Deluxe Rollaway Locking File with Drawer	36260.71
Economy Rollaway Files	28368.79

WHAT IS THE NAME, CITY AND ACCOUNT MANAGER OF THE HIGHEST SELLING PRODUCT IN 2017?

```sql
SELECT product_name,
    city,
        account_manager,
        ROUND(SUM(total)) Revenue
FROM orders
JOIN products
USING(product_id)
JOIN account
USING(account_id)
WHERE EXTRACT(year from order_date) = 2017
GROUP BY product_name, city,
account_manager
ORDER BY Revenue DESC
LIMIT 1;
```

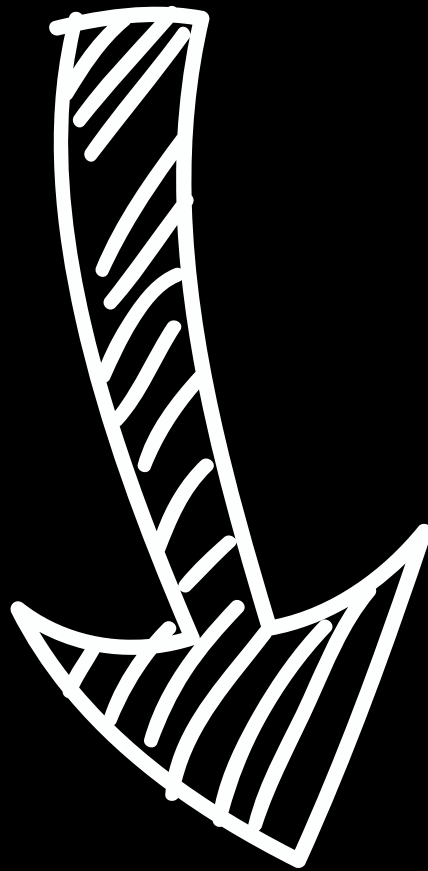| product_name	city	account_manager	Revenue
UGen Ultra Professional Cordless Optical Suite	Melbourne	Connor Betts	8735

FIND THE MEAN AMOUNT SPENT PER ORDER BY EACH CUSTOMER TYPE?

SELECT customer_type,
   AVG(total) Average_amount
FROM orders
GROUP BY customer_type;

customer_type	Average_amount
Home Office	1095.1640530303023
Corporate	1096.3986472148538
Consumer	1142.51418079096
Small Business	1362.087963800906

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