**Products Table**

**1. Retrieve all columns from the product table.**

select \* from products;

|  |  |  |  |
| --- | --- | --- | --- |
| ****Product ID**** | ****Product Name**** | ****Category**** | ****Unit Price (USD)**** |
| 101 | Laptop | Electronics | 500.00 |
| 102 | Smartphone | Electronics | 300.00 |
| 103 | Headphones | Electronics | 30.00 |
| 104 | Keyboard | Electronics | 20.00 |
| 105 | Mouse | Electronics | 15.00 |

**2. Retrieve the product\_name and unit\_price from the Products table.**

select product\_name,unit\_price from Products;

|  |  |
| --- | --- |
| ****Product Name**** | ****Unit Price (USD)**** |
| Laptop | 500.00 |
| Smartphone | 300.00 |
| Headphones | 30.00 |
| Keyboard | 20.00 |
| Mouse | 15.00 |

**3. Filter the Products table to show only products in the ‘Electronics’ category.**

select \* from Products where category='Electronics';

|  |  |  |  |
| --- | --- | --- | --- |
| ****Product ID**** | ****Product Name**** | ****Category**** | ****Unit Price (USD)**** |
| 101 | Laptop | Electronics | 500.00 |
| 102 | Smartphone | Electronics | 300.00 |
| 103 | Headphones | Electronics | 30.00 |
| 104 | Keyboard | Electronics | 20.00 |
| 105 | Mouse | Electronics | 15.00 |

**4. Retrieve the product\_id and product\_name from the Products table for products with a**

**unit\_price greater than $100.**

select product\_id, product\_name from Products where unit\_price>100;

|  |  |
| --- | --- |
| ****Product ID**** | ****Product Name**** |
| 101 | Laptop |
| 102 | Smartphone |

**5. Calculate the average unit\_price of products in the Products table.**

select avg(unit\_price) from Products;

|  |
| --- |
| ****avg(unit\_price)**** |
| 173.000000 |

**6. Retrieve product\_name and unit\_price from the Products table with the Highest Unit Price.**

select product\_name, unit\_price from Products where unit\_price=(select max(unit\_price) from Products) ;

|  |  |
| --- | --- |
| ****Product Name**** | ****Unit Price (USD)**** |
| Laptop | 500.00 |

**7. Retrieve the product\_name and unit\_price from the Products table, ordering the results by unit\_price in descending order.**

select product\_name , unit\_price from Products order by unit\_price desc;

|  |  |
| --- | --- |
| **Product Name** | **Unit Price (USD)** |
| Laptop | 500.00 |
| Smartphone | 300.00 |
| Headphones | 30.00 |
| Keyboard | 20.00 |
| Mouse | 15.00 |

**8. Retrieve the product\_name and unit\_price from the Products table, filtering the unit\_price to show only values between $20 and $600.**

select product\_name , unit\_price from Products where unit\_price>20 and unit\_price<600;

|  |  |
| --- | --- |
| **Product Name** | **Unit Price (USD)** |
| Laptop | 500.00 |
| Smartphone | 300.00 |
| Headphones | 30.00 |

**9. Retrieve the product\_name and category from the Products table, ordering the results by category in ascending order.**

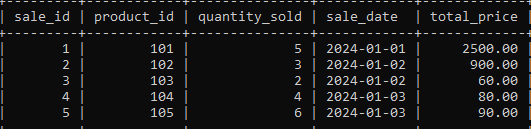
select product\_name , category from Products order by category asc;

|  |  |
| --- | --- |
| **Product Name** | **Category** |
| Laptop | Electronics |
| Smartphone | Electronics |
| Headphones | Electronics |
| Keyboard | Electronics |
| Mouse | Electronics |

**Sales Table**

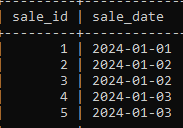
**1. Retrieve all columns from the Sales table.**

select \* from Sales;



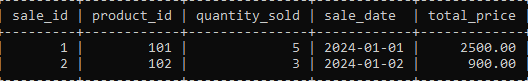
**2. Retrieve the sale\_id and sale\_date from the Sales table.**

select sale\_id, sale\_date from Sales;



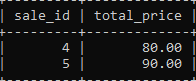
**3. Filter the Sales table to show only sales with a total\_price greater than $100.**

select \* from Sales where total\_price>100;



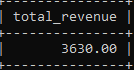
**4. Retrieve the sale\_id and total\_price from the Sales table for sales made on January 3, 2024.**

select sale\_id,total\_price from Sales where sale\_date='2024-01-03';



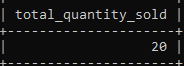
**5. Calculate the total revenue generated from all sales in the Sales table.**

select sum(total\_price) as total\_revenue from Sales;



**6. Calculate the total quantity\_sold from the Sales table.**

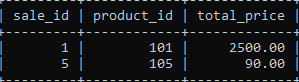
select sum(quantity\_sold) as total\_quantity\_sold from Sales;



**7. Retrieve the sale\_id, product\_id, and total\_price from the Sales table for sales with a**

**quantity\_sold greater than 4.**

select sale\_id,product\_id,total\_price from Sales where quantity\_sold>4;



**8.  Calculate the average total\_price of sales in the Sales table.**

select avg(total\_price) as average\_price from Sales;

