**Prepopulation Queries**

CREATE TABLE Product (

ProductID INT PRIMARY KEY,

ProductName VARCHAR(50),

Category VARCHAR(50),

Price DECIMAL(10, 2),

Quantity INT

);

INSERT INTO Product (ProductID, ProductName, Category, Price, Quantity)

VALUES

(1, 'Apple iPhone 12', 'Electronics', 999.99, 10),

(2, 'Samsung Galaxy S21', 'Electronics', 899.99, 8),

(3, 'HP Pavilion Laptop', 'Electronics', 799.99, 5),

(4, 'Sony PlayStation 5', 'Gaming', 499.99, 15),

(5, 'Microsoft Xbox Series X', 'Gaming', 499.99, 12),

(6, 'Nike Air Max 270', 'Fashion', 149.99, 20),

(7, 'Adidas Ultraboost', 'Fashion', 129.99, 18),

(8, 'Samsung 55" 4K TV', 'Electronics', 899.99, 6),

(9, 'Sony 65" 4K TV', 'Electronics', 1199.99, 4),

(10, 'Dell Inspiron Desktop', 'Electronics', 699.99, 3),

(11, 'LG 27" Monitor', 'Electronics', 299.99, 7),

(12, 'Canon EOS Rebel T7i', 'Electronics', 799.99, 2),

(13, 'Nintendo Switch', 'Gaming', 299.99, 10),

(14, 'Apple AirPods Pro', 'Electronics', 249.99, 9),

(15, 'Bose QuietComfort 35 II', 'Electronics', 299.99, 6);

**Questions**

1. Write a SQL query to retrieve all unique categories from the "Product" table.
2. Write a SQL query to calculate the total number of products in the "Product" table.
3. Write a SQL query to retrieve the top 5 most expensive products from the "Product" table.
4. Write a SQL query to retrieve the first product in the "Product" table.
5. Write a SQL query to retrieve the last product in the "Product" table.
6. Write a SQL query to retrieve all products with a quantity less than 5 from the "Product" table.
7. Write a SQL query to retrieve all products in the "Electronics" or "Gaming" category from the "Product" table.
8. Write a SQL query to retrieve the products starting from the 10th record, with a limit of 5 records from the "Product" table.
9. Write a SQL query to retrieve the count of products in the "Electronics" category from the "Product" table.
10. Write a SQL query to retrieve the top 3 most expensive products in the "Electronics" category from the "Product" table.
11. Write a SQL query to retrieve the average price of all products from the "Product" table.
12. Write a SQL query to retrieve all products with a price greater than or equal to $500 from the "Product" table.
13. Write a SQL query to retrieve the total quantity of all products in the "Fashion" category from the "Product" table.
14. Write a SQL query to retrieve the products with a quantity greater than 15 and a price less than $200 from the "Product" table.
15. Write a SQL query to retrieve the count of products with a price less than $300 from the "Product" table.
16. Write a SQL query to retrieve all products with a price in the range of $100 to $200 from the "Product" table.
17. Write a SQL query to retrieve the top 5 products with the highest quantity from the "Product" table.
18. Write a SQL query to retrieve the average price of products in the "Electronics" category from the "Product" table.
19. Write a SQL query to retrieve the products with a price greater than the average price of all products from the "Product" table.
20. Write a SQL query to retrieve the products with a price in the top 10% range of all products from the "Product" table.