PRODUCTS TABLE

```
CREATE TABLE products(
product_id int primary key,
product_name varchar(100),
category varchar(50),
unit_price decimal(10,2)
);
INSERT INTO products values (101,'Laptop','Electronics',500.00);
INSERT INTO products values (102,'Smartphone','Electronics',300.00);
INSERT INTO products values (103,'Headphones','Electronics',30.00);
INSERT INTO products values (104,'Keyboard','Electronics',20.00);
INSERT INTO products values (105,'Mouse','Electronics',15.00);
```

1. Retrive all columns from the product table.

QUERIES: SELECT * FROM products;

product_id	product_name	category	unit_price
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
NULL	NULL	NULL	NULL

2. Retrieve the product_name and unit_price from the products table.

QUERIES: SELECT product_name , unit_price from products;

product_name	unit_price
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.

QUERIES: SELECT * FROM products where category='Electronics';

product_id	product_name	category	unit_price
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
NULL	NULL	NULL	NULL

4. Retrieve the product_id and product_name from the Products table for products with a unit_price greater than $100.

QUERIES: SELECT product_id, product_name from products where unit_price > 100;

product_id	product_name
101	Laptop
102	Smartphone
NULL	NULL

5. Calculate the average unit_price of products in the Products table.

QUERIES: SELECT avg(unit_price) as avg_price from products;

avg_price
173.000000

6. Retrieve the product_name and unit_price from the Products table, ordering the results by unit_price in descending order.

QUERIES: SELECT product_name, unit_price from products order by unit_price desc;

product_name	unit_price
Laptop	500.00
Smartphone	300.00
Headphones	30.00
Keyboard	20.00
Mouse	15.00

7. Retrieve the product_name and unit_price from the Products table, filtering the unit_price to show only values between $20 and $600.

QUERIES: SELECT product_name, unit_price from products where unit_price between 20 and 600;

	product_name	unit_price
▶	Laptop	500.00
	Smartphone	300.00
	Headphones	30.00
	Keyboard	20.00

8. Retrieve the product_name and category from the Products table, ordering the results by category in ascending order.

QUERIES: SELECT product_name, category from products order by category asc;

	product_name	category
▶	Laptop	Electronics
	Smartphone	Electronics
	Headphones	Electronics
	Keyboard	Electronics
	Mouse	Electronics