create database product;

use product;

create table product1(product\_id int primary key, product\_name varchar(100),category varchar(50),unit\_price decimal(10,2));

insert into product1(product\_id,product\_name,category,unit\_price) values(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);

Question 1:

select \*from product1;

+------------+--------------+-------------+------------+

| 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 |

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

select product\_name,unit\_price from product1;

+--------------+------------+

| product\_name | unit\_price |

+--------------+------------+

| laptop | 500.00 |

| smartphone | 300.00 |

| headphones | 30.00 |

| keyboard | 20.00 |

| mouse | 15.00 |

|  |  |
| --- | --- |
|  |  |

Question 3: 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 product1 where unit\_price >100;

+------------+--------------+

| product\_id | product\_name |

+------------+--------------+

| 101 | laptop |

| 102 | smartphone |

+------------+--------------+

Question 2: Filter the Products table to show only products in the ‘Electronics’ category.

select \*from product1 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 |

+------------+--------------+-------------+------------+

Question 4: Calculate the average unit\_price of products in the Products table.

SELECT AVG(unit\_price) AS average\_unit\_price FROM Product1;

+--------------------+

| average\_unit\_price |

+--------------------+

| 173.000000 |

+--------------------+