

-- Online SQL Editor to Run SQL Online.

-- Use the editor to create new tables, insert data and all other SQL operations

product_id	product_name	category	price	quantity	date_added
1	dove_soap	fmcg	32.1	2	12-6-2024
2	dove_soap	fmcg	33.1	4	17-6-2024
3	shampoo	fmcg	62.3	8	14-8-2024
4	tablet	medicine	93.5	2	25-8-2024
5	shirt	general	83	1	27-9-2024

--Q1.create a new table in sql

```
create table product_details (  
product_id INT AUTO_INCREMENT PRIMARY KEY,  
product_name VARCHAR(100) not null,  
category VARCHAR,  
price DECIMAL(10,2)not null,  
quantity INT not null,  
date_added DATE not null  
);
```

--Q2) Insert a new product into the products table.

```
insert into product_details  
(product_id,product_name,category,price,quantity,date_added)  
values ('1','dove_soap','fmcg','32.1','2','12-6-2024');
```

--Q3) Insert three more products at once.

```
insert into product_details  
(product_id,product_name,category,price,quantity,date_added)  
values ('2','dove_soap','fmcg','33.1','4','17-6-2024'),  
('3','shampoo','fmcg','62.3','8','14-8-2024'),
```

```
('4','tablet','medicine','93.5','2','25-8-2024'),  
( '5','shirt','general','83.0','1','27-9-2024')  
;
```

--Q4) Retrieve all records from the products table.

```
Select * from product_details;
```

--Q5) Retrieve the product\_name and price of all products.

```
select product_name, price from product_details;
```

--Q6) Select products in the medicine category.

```
SELECT product_name, product_id from product_details  
where category = 'medicine' ;
```

--Q7) Select products with a price greater than \$100 and a quantity less than 20.

```
SELECT * from product_details  
where price < 100 and price > 20 ;
```

-- Q8) Retrieve all products ordered by price in ascending order.

```
select * from product_details  
order by price asc
```

--Q9) Get the top 5 most expensive products.

```
select * from product_details  
order by price desc  
limit 3 ;
```

--Q10) Count the total number of products in the table.

```
select count (product_id)  
from product_details;
```

--Q11) Count the number of products in each category.

```
select count (category) as no_of_total_product  
from product_details  
where category ='fmcg';
```

--Q12) Find all products with names that start with s.

```
select * from product_details  
where product_name like 's%'
```

--Q13) Select products whose category is either fmcg or general ;

```
select * from product_details  
where category = 'fmcg' or 'general' ;
```

--Q14) Find products priced between \$50 and \$100.

```
select * from product_details  
where price between 50 and 100;
```

--Q15) Retrieve a list of unique categories from the products table.

```
SELECT DISTINCT category  
FROM products_details;
```

--Q16) Select products that have a price higher than the average price.

```
-SELECT * FROM product_details  
WHERE price > (SELECT AVG(price) FROM product_details);
```