

```
create database bai5;
```

```
use bai5;
```

```
create table products (  
    id int primary key auto_increment not null ,  
    productCode int not null ,  
    productName varchar(255),  
    productPrice int default 0,  
    productAmount int default 0,  
    productDescription TEXT,  
    productStatus int default 0  
);
```

```
INSERT INTO products (productCode, productName, productPrice, productAmount,  
productDescription, productStatus) VALUES (101, 'Product 1', 100, 10, 'Description for  
Product 1', 1);
```

```
INSERT INTO products (productCode, productName, productPrice, productAmount,  
productDescription, productStatus) VALUES (102, 'Product 2', 200, 20, 'Description for  
Product 2', 0);
```

```
INSERT INTO products (productCode, productName, productPrice, productAmount,  
productDescription, productStatus) VALUES (103, 'Product 3', 300, 30, 'Description for  
Product 3', 1);
```

```
INSERT INTO products (productCode, productName, productPrice, productAmount,  
productDescription, productStatus) VALUES (104, 'Product 4', 400, 40, 'Description for  
Product 4', 0);
```

```
INSERT INTO products (productCode, productName, productPrice, productAmount,  
productDescription, productStatus) VALUES (105, 'Product 5', 500, 50, 'Description for  
Product 5', 1);
```

```
INSERT INTO products (productCode, productName, productPrice, productAmount,  
productDescription, productStatus) VALUES (106, 'Product 6', 600, 60, 'Description for  
Product 6', 0);
```

```
INSERT INTO products (productCode, productName, productPrice, productAmount,  
productDescription, productStatus) VALUES (107, 'Product 7', 700, 70, 'Description for  
Product 7', 1);
```

```
INSERT INTO products (productCode, productName, productPrice, productAmount,  
productDescription, productStatus) VALUES (108, 'Product 8', 800, 80, 'Description for  
Product 8', 0);
```

```
INSERT INTO products (productCode, productName, productPrice, productAmount,  
productDescription, productStatus) VALUES (109, 'Product 9', 900, 90, 'Description for  
Product 9', 1);
```

```
INSERT INTO products (productCode, productName, productPrice, productAmount,  
productDescription, productStatus) VALUES (110, 'Product 10', 1000, 100, 'Description for  
Product 10', 0);
```

-- Tạo Unique Index trên bảng Products (sử dụng cột productCode để tạo chỉ mục)

```
create unique index idx_productCode on products(productCode);
```

-- Tạo Composite Index trên bảng Products (sử dụng 2 cột productName và productPrice)

```
create index idx_name_price on products(productName, productPrice);
```

-- Tạo view lấy về các thông tin: productCode, productName, productPrice, productStatus từ bảng products.

```
create view product_view as
```

```
select productCode, productName, productPrice, productStatus from products;
```

-- Tiến hành sửa đổi view

```
update product_view set productPrice = 300 where productCode = 101;
```

```
delete from product_view where productName = 'Product 2';
```

-- Tiến hành xoá view

```
drop view product_view;
```

-- Tạo store procedure lấy tất cả thông tin của tất cả các sản phẩm trong bảng product

```
delimiter //
```

```
create procedure getAllProduct()
```

```
begin
```

```
    select * from products;
```

```
end //
```

```
delimiter ;
```

```
call getAllProduct();
```

-- Tạo store procedure thêm một sản phẩm mới

```
delimiter //
```

```
create procedure addNewProduct(
```

```
    id int,
```

```
    productCode int,
```

```
    productName varchar(255),
```

```
    productPrice int,
```

```
    productAmount int,
```

```
    productDescription TEXT,
```

```
    productStatus int
```

```
)
```

```
begin
```

```
INSERT INTO products VALUES (
```

```
    id,
```

```
    productCode,
```

```
    productName,
```

```
    productPrice,
```

```
    productAmount,
```

```
    productDescription,
```

```
    productStatus
```

```
);  
end //  
delimiter ;  
call addNewProduct(12, 111, 'Le Linh', 1000, 1, 'DepTrai18cm', '1');
```

-- Tạo store procedure sửa thông tin sản phẩm theo id

```
delimiter //  
create procedure updateProduct(namee varchar(60),codee int, idP int)  
begin  
update products set productName = namee, productCode = codee where id = idP;  
end //  
delimiter ;  
call updateProduct('Vanh', 110, 10)
```

-- Tạo store procedure xóa sản phẩm theo id

```
delimiter //  
create procedure deleteById(idP int)  
begin  
delete from products where id = idP;  
end //  
delimiter ;  
call deleteById(5)
```