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CaseStudy 04

```
use casestudy04;
```

```
create table customers
```

```
(  
    customer_id int primary key,  
    cus_name varchar(50),  
    email varchar(100),  
    ship_add varchar(100)  
);
```

```
create table product
```

```
(  
    product_id int primary key,  
    product_name varchar(50),  
    pro_type varchar(20),  
    price decimal(10,2),  
    quantity_in_stock int  
);
```

```
CREATE TABLE Orders
```

```
(  
    order_id INT PRIMARY KEY,  
    customer_id int,  
    con_person VARCHAR(50),  
    payment_method VARCHAR(20),  
    product_id INT,  
    FOREIGN KEY (product_id) REFERENCES Product(product_id),  
    FOREIGN KEY (customer_id) REFERENCES Customers(customer_id)  
);
```

```
SELECT customer_id, COUNT(order_id) AS number_of_purchases
FROM orders
GROUP BY customer_id
HAVING COUNT(order_id) > 0;
```

```
SELECT product_id, product_name, quantity_in_stock
FROM products
WHERE quantity_in_stock < minimum_required;
```

```
SELECT s.subcategory_name, p.product_name, p.quantity_sold
FROM subcategories s
JOIN products p ON s.subcategory_id = p.subcategory_id
ORDER BY p.quantity_sold DESC;
```

```
CREATE INDEX idx_product_name ON products(product_name);
```

```
commit;
```