**Section C : Real world scenario**

1. Add a new table stock to track stock levels for each product with following columsn:

Id, product\_id, quantity, update\_at

**Answer:**

CREATE TABLE Stock(id INT PRIMARY KEY IDENTITY(1,1), product\_id INT FOREIGN KEY REFERENCES products(id), updated\_at DATETIME DEFAULT GETDATE(), quantity INT);

1. Implementation of CRUD
   1. add stock

**Answer:**

INSERT INTO Stock (product\_id, quantity) VALUES(1, 10);

* 1. update the stock for product 1

**Answer:**

UPDATE Stock SET quantity = 100, updated\_at = GETDATE() WHERE product\_id=1;

* 1. to view current stock of product 1

**Answer:**

SELECT quantity FROM Stock WHERE product\_id = 1;

* 1. get stock data

**Answer:**

SELECT product\_id, quantity, updated\_at FROM Stock;

* 1. get stock data to send report mail

**Answer:**

SELECT product\_id, quantity, updated\_at FROM Stock;

1. Implement pagination

**Answer:**

SELECT id, name, description, price FROM products ORDER BY id OFFSET 10 ROWS FETCH NEXT 10 ROWS ONLY;

**Note: We need to change the value of offset and next number rows in every query as pagination.**