

CS-317 Lab 1
Cameron Stark

Task 1:

```
CREATE TABLE Product (  
    ProductID INT PRIMARY KEY,  
    Name VARCHAR(255),  
    Price REAL,  
    Description VARCHAR(255),  
    Category INT,  
    Manufacturer VARCHAR(255)  
);
```

```
CREATE TABLE Category (  
    CategoryID INT PRIMARY KEY,  
    MainCategory VARCHAR(255),  
    SubCategory VARCHAR(255)  
);
```

```
CREATE TABLE Review (  
    ReviewID INT PRIMARY KEY,  
    Product INT,  
    Customer INT,  
    ReviewDate DATE,  
    Rating INT,  
    Details VARCHAR(255)  
);
```

```
CREATE TABLE Customer (  
    CustomerID INT PRIMARY KEY,  
    Username VARCHAR(255),  
    email VARCHAR(255),  
    address VARCHAR(255)  
);
```

Task 2:

Step 1:

SELECT * FROM Product

PRODUCTID	NAME	PRICE	DESCRIPTION	CATEGORY	MANUFACTURER
1	ASUS F555LA-AB31	566.99	15.6-inch Full-HD Laptop	2	ASUS
2	Dell Inspiron i7559	564	15.6" Full-HD Gaming Laptop	2	DELL
3	Lenovo ThinkPad 11E	432.99	Ultraportable Business Notebook	2	LENOVO
4	Dell OptiPlex 755	475	Desktop Complete Computer Pac...	1	DELL
5	Apple Wired Keyboard	60.35	Numeric Keypad Compatible with ...	3	APPLE
6	Dell AX210 Speaker	12.98	USB Stereo Speaker System	4	DELL

SELECT * FROM Category

CATEGORYID	MAINCATEGORY	SUBCATEGORY
1	Computer	Desktop
2	Computer	Laptop
3	Computer Accessories	Keyboard
4	Computer Accessories	Speaker

SELECT * FROM Review

REVIEWID	PRODUCT	CUSTOMER	REVIEWDATE	RATING	DETAILS
1	2	4	2015-05-03T00:00:00.0000000	5	This is a very good computer
2	2	3	2015-06-01T00:00:00.0000000	1	Bad Choice
3	5	1		4	I like it

SELECT * FROM Customer

CUSTOMERID	USERNAME	EMAIL	ADDRESS
1	user1	user1@gmail.com	address1
2	user2	user2@gmail.com	address2
3	user3	user3@gmail.com	address3
4	user4	user4@gmail.com	address4
5	user5	user5@gmail.com	address5
6	test	test@gmail.com	test

Step 2:

```
SELECT
    Username
FROM Customer
WHERE CustomerId IN (
    SELECT
        Customer
    FROM Review
    WHERE ReviewDate IS NULL
);
```

Step 3:

```
UPDATE Review
SET ReviewDate = CAST('2019-02-25' AS DATE)
WHERE ReviewDate IS NULL
```

Step 4:

```
SELECT
    Product.Name,
    AVG(Review.rating)
FROM
    Product,
    Review
WHERE Product.ProductID = Review.Product
```

Task 3:

```
DELETE FROM Customer
WHERE Username = 'test';
```

Task 4:

```
SELECT
    Name,
    Max(Price),
    Manufacturer
From
    Product
WHERE Category IN (
    SELECT
        CategoryID
    FROM
        Category
    WHERE
        SubCategory = 'Laptop'
)
```

Task 5:

```
SELECT
    Max(Price)
FROM
    Product P,
    Category C
WHERE
    P.Category = C.CategoryID AND
    SubCategory = 'Laptop'
```

Task 6:

```
ALTER TABLE Review ADD Phone NVARCHAR(12) DEFAULT '888-888-8888';
```

Task 7:

```
SELECT
    P.Name
FROM
    Product P,
    Review R
WHERE P.ProductID = R.Product
GROUP BY P.Name
HAVING Avg(R.Rating) > 3
```