

Activity No. 6.3 - Converting MySQL database to SQL	
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Section: CPE21S3	Instructor: Dr. Jonathan Vidal Taylar

Creating productlines table

```

CREATE TABLE productlines(
    productLine INT IDENTITY(1,1) PRIMARY KEY,
    textDescription VARCHAR(25) NOT NULL,
    htmlDescription VARCHAR(25) NOT NULL,
    image image NOT NULL,
);

```

100 %

Messages

Commands completed successfully.

Completion time: 2022-10-05T14:47:19.6288575+08:00

Creating products table

```

CREATE TABLE products(
    productCode INT IDENTITY(1,1) PRIMARY KEY,
    productName VARCHAR(25) NOT NULL,
    productLine INT NOT NULL,
    productScale VARCHAR(25) NOT NULL,
    productVendor VARCHAR(25) NOT NULL,
    productDescription VARCHAR(25) NOT NULL,
    quantityInStock INT NOT NULL,
    buyPrice DECIMAL NOT NULL,
    MSRP DECIMAL NOT NULL,
    FOREIGN KEY (productLine)
    REFERENCES productlines (productLine)
    ON DELETE CASCADE
    ON UPDATE CASCADE
);

```

100 %

Messages

Commands completed successfully.

Completion time: 2022-10-05T15:04:53.1042692+08:00

Creating offices table

```
Hands On 6. 3 Quer...ryan Mendoza (53))  
  
CREATE TABLE offices(  
    officeCode INT PRIMARY KEY,  
    city VARCHAR(255) NOT NULL,  
    phone INT NOT NULL,  
    addressLine1 VARCHAR(255) NOT NULL,  
    addressLine2 VARCHAR(255) NOT NULL,  
    state VARCHAR(50) NOT NULL,  
    country VARCHAR(50) NOT NULL,  
    postalCode INT NOT NULL,  
    territory VARCHAR(50) NOT NULL  
);  
  
161 %  
Messages  
Commands completed successfully.  
  
Completion time: 2022-10-05T15:33:30.9646353+08:00
```

Creating employees table

```
Hands On 6. 3 Quer...ryan Mendoza (53))  
  
CREATE TABLE employees(  
    employeeNumber INT PRIMARY KEY,  
    lastName VARCHAR(50) NOT NULL,  
    firstName VARCHAR(50) NOT NULL,  
    extension VARCHAR(25),  
    email VARCHAR(255) NOT NULL,  
    officeCode INT NOT NULL,  
    reportsTo INT NOT NULL,  
    jobTitle VARCHAR(255) NOT NULL  
    FOREIGN KEY (officeCode)  
    REFERENCES offices(officeCode),  
    FOREIGN KEY (reportsTo)  
    REFERENCES employees(employeeNumber)  
);  
  
161 %  
Messages  
Commands completed successfully.  
  
Completion time: 2022-10-05T15:35:24.6617059+08:00
```

Creating customers table

```
CREATE TABLE customers(  
    customerNumber INT IDENTITY(1,1) PRIMARY KEY,  
    customerName VARCHAR(50) NOT NULL,  
    contactLastName VARCHAR(50) NOT NULL,  
    contactFirstName VARCHAR(50) NOT NULL,  
    phone INT NOT NULL,  
    addressLine1 VARCHAR(255) NOT NULL,  
    addressLine2 VARCHAR(255) NOT NULL,  
    city VARCHAR(50) NOT NULL,  
    state VARCHAR(50) NOT NULL,  
    postalCode INT NOT NULL,  
    country VARCHAR(50) NOT NULL,  
    salesRepEmployeeNumber INT NOT NULL,  
    creditLimit MONEY NOT NULL  
    FOREIGN KEY (salesRepEmployeeNumber)  
    REFERENCES employees (employeeNumber)  
    ON DELETE CASCADE  
    ON UPDATE CASCADE  
);
```

121 %

Messages
Commands completed successfully.
Completion time: 2022-10-05T21:21:45.9770946+08:00

Creating payments table

```
CREATE TABLE payments(  
    customerNumber INT NOT NULL,  
    checkNumber INT IDENTITY(1,1) PRIMARY KEY,  
    paymentDate date NOT NULL,  
    amount MONEY NOT NULL  
    FOREIGN KEY (customerNumber)  
    REFERENCES customers (customerNumber)  
    ON DELETE CASCADE  
    ON UPDATE CASCADE  
);
```

21 %

Messages
Commands completed successfully.
Completion time: 2022-10-05T21:21:45.9770946+08:00

Creating orders table

```
CREATE TABLE orders(  
    orderNumber INT NOT NULL,  
    orderDate DATE NOT NULL,  
    requiredDate DATE NOT NULL,  
    shippedDate DATE,  
    status INT,  
    comments VARCHAR(255) NOT NULL,  
    customerNumber INT NOT NULL,  
    FOREIGN KEY (orderNumber)  
    REFERENCES orderdetails (orderNumber)  
    ON DELETE CASCADE  
    ON UPDATE CASCADE  
);
```

0 %

Messages

Commands completed successfully.

Completion time: 2022-10-07T02:10:22.1790050+08:00

Creating orderdetails table

```
CREATE TABLE orderdetails(  
    orderNumber INT IDENTITY(1,1) PRIMARY KEY,  
    productCode INT NOT NULL,  
    quantityOrdered INT NOT NULL,  
    priceEach DECIMAL NOT NULL,  
    orderLineNumber INT NOT NULL,  
    FOREIGN KEY (productCode)  
    REFERENCES products (productCode)  
    ON DELETE CASCADE  
    ON UPDATE CASCADE  
);
```

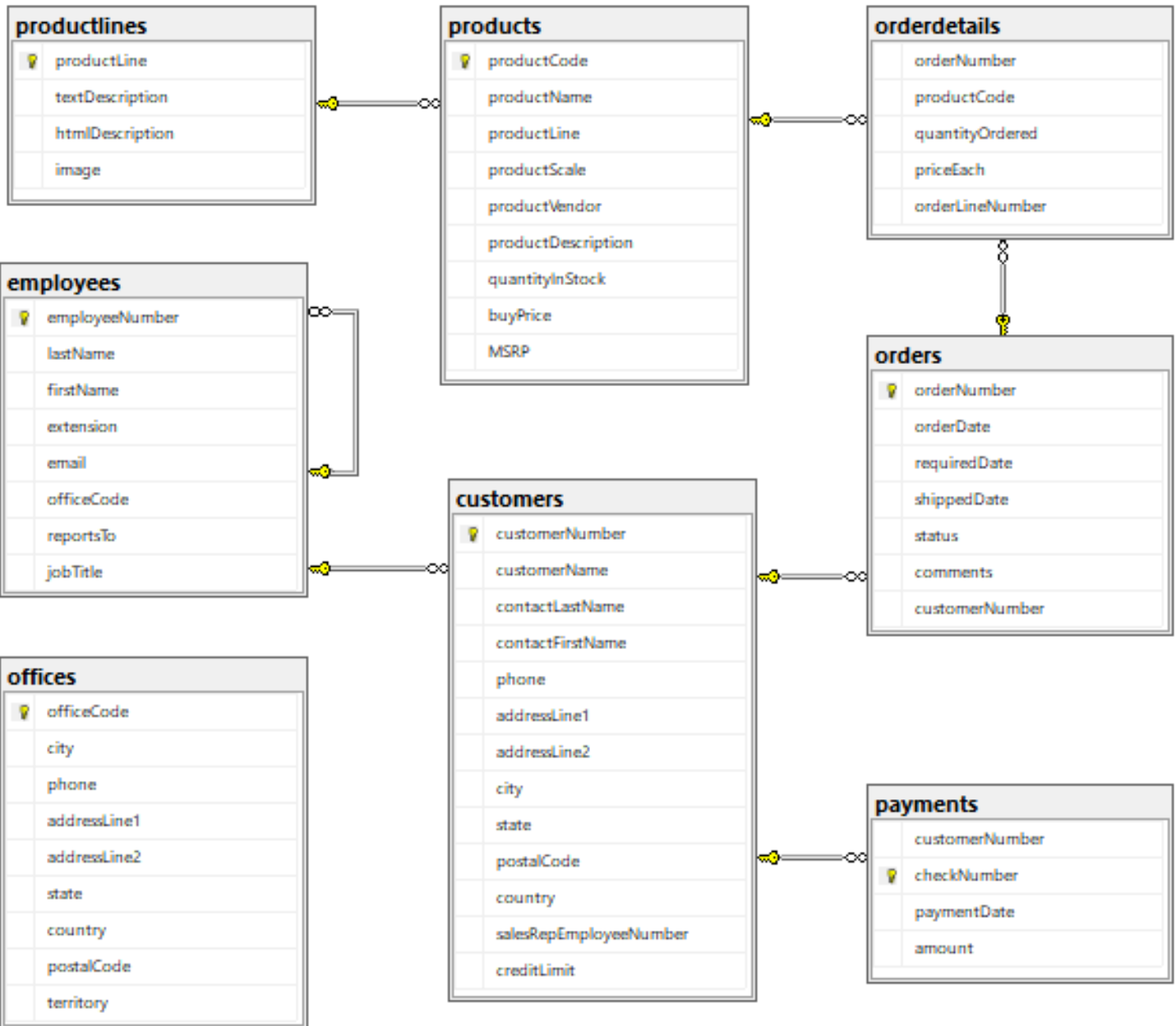
100 %

Messages

Commands completed successfully.

Completion time: 2022-10-07T02:09:25.3987445+08:00

Database Diagram



Conclusion:

The group was tasked with creating a database schema in SQL Server based on a diagram in this activity. The students are already familiar with the commands required to create a database and populate it with tables and data. The only challenging aspect is applying previous knowledge and adjusting to the new syntax from MYSQL to Microsoft SQL Environment.

During the procedure, students were able to become acquainted with the new syntax while also creating a database diagram. The students were able to easily create relationships between tables and visually see how the tables connect to one another using Microsoft SQL Environment.

Honor Pledge

"I accept responsibility for my role in ensuring the integrity of the work submitted by the group in which I participated."