

QM-7093-01 ENTERPRISE DATA SYSTEMS

CASE STUDY (CS-8) – NOAH L. SCHRICK - 1492657

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Instructions:

You can find the Review Questions in the textbook at the end of Chapter 8: Questions A-G of the Morgan Importing Project

- Answer questions A through G of the Morgan Importing Project found on page 450.
- Create and set up the database with the given information.
- Do not include the result table unless specifically directed to.
- Include at least one line of white space between answers.
- Submit thru Harvey drop box
- Deliverable: You are expected to submit
 - o A single SQL script file (.sql) prepared and saved in SQL Server Management Studio that includes your SQL statements that answer each of the questions in order.
 - o This word file that you copied all of your SQL script (no result tables) from your SQL file.
- Each query should start with a comment line that looks like the following (last character corresponding to question number):
 - o /* *** CS8-MI.A *** */
 - o This line should follow the SQL statement that is your answer to the particular question (e.g. B, C, D, ...)
- You should include at least one line of white space between your answer SQL statements
- Do not include the result table unless it is said so!
- Check Harvey for the due date!

Your answer should look like this:

```
/* Your Names-Group Name */
/* *** CS1-2.17 *** */
SELECT      SKU, SKU_Description
FROM        INVENTORY;
```

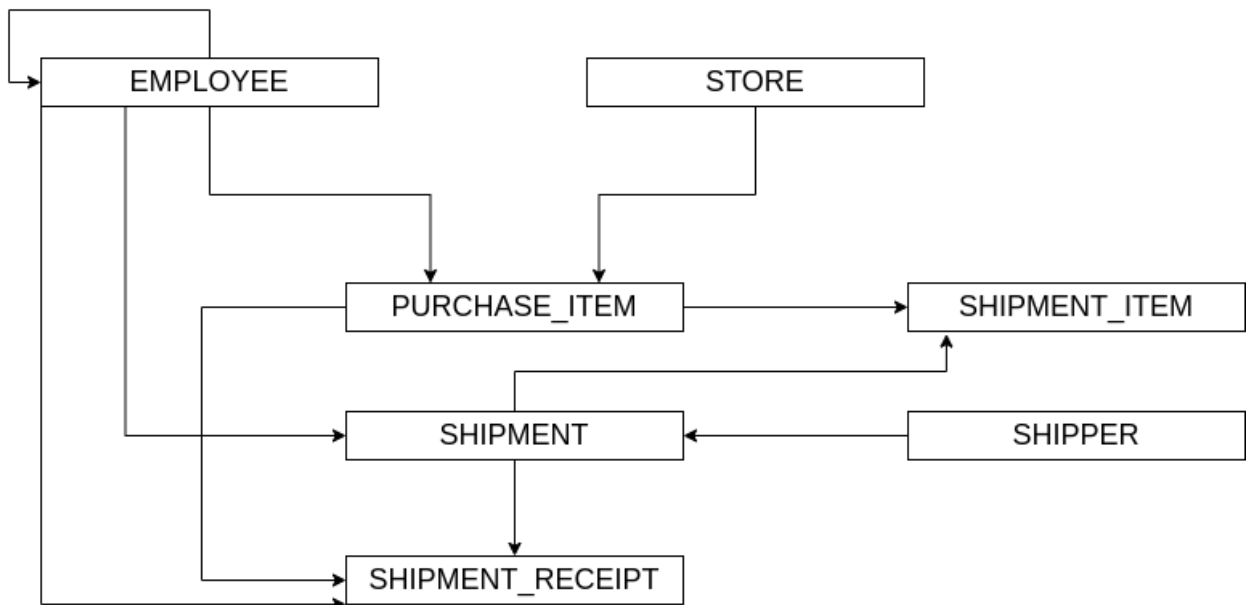
```
/* *** CS1-2.18 *** */
SELECT      SKU, SKU_Description
FROM        INVENTORY;
```

```
/* *** CS1-2.19 *** */
SELECT      SKU, SKU_Description
FROM        INVENTORY;
```

Please write your solution below:

```
/* Noah L. Schrick */
```

```
/* *** CS8-MI.A *** */
```



Views and stored procedures can be incorporated into the dependency graph by creating objects for them. Each object can then be connected with directed edges to the tables shown above.

```
/* *** CS8-MI.B *** */
```

- 1.) Create a new table called ITEM, with ItemID as the primary key, and columns of ItemDescription and Category.
- 2.) Alter views, triggers, and constraints as needed.

3.) Copy PurchaseItemID from PURCHASE_ITEM to ITEM, changing the column name to ItemID. Copy ItemDescription and Category from PURCHASE_ITEM to ITEM.

```
/* *** CS8-MI.C *** */
```

```
CREATE TABLE ITEM (  
    ItemID INT IDENTITY(500,5),  
    ItemDescription CHAR(60),  
    Category CHAR(25),  
    PRIMARY KEY(ItemID)  
);
```

```
INSERT INTO ITEM (ItemID, ItemDescription, Category)  
    SELECT PurchaseItemID, ItemDescription, Categeory  
    FROM PURCHASE_ITEM  
;
```

```
/* *** CS8-MI.D *** */
```

- 1.) Create a new table called SHIPMENT_LINE_ITEM.
- 2.) Alter views, triggers, and constraints as needed.
 - 2a) Drop foreign key constraints.
- 3.) Copy all data from SHIPMENT_ITEM to SHIPMENT_LINE_ITEM.
- 4.) Add foreign key constraints.
- 5.) Drop SHIPMENT_ITEM.

```
/* *** CS8 – MI.E *** */
```

```
CREATE TABLE SHIPMENT_LINE_ITEM(  
  ShipmentID INT FOREIGN KEY REFERENCES SHIPMENT(ShipmentID),  
  ShipmentLineNumber INT,  
  ItemID INT FOREIGN KEY REFERENCES ITEM(ItemID),  
  InsuredValue INT,  
  PRIMARY KEY(ShipmentID, ShipmentItemID)  
)
```

```
INSERT INTO SHIPMENT_LINE_ITEM (ShipmentID,  
  ShipmentLineNumber, ItemID, InsuredValue)
```

```
  SELECT ShipmentID, ShipmentItemID, PurchaseItemID,  
  InsuredValue  
  FROM SHIPMENT_ITEM;
```

```
DROP TABLE SHIPMENT_ITEM;
```

```
/* *** CS8-MI.F *** */
```

1.) Create new tables called INVOICE and INVOICE_LINE_ITEM.

2.) Alter views, triggers, and constraints as needed.

2a) Drop foreign key constraints.

3.) Copy PurchaseItemID, InvoiceDate, StoreID, PurchasingAgentID, SubtotalUSD, TaxUSD, and TotalUSED from PURCHASE_ITEM to INVOICE.

4.) Copy PurchaseItemID, Quantity, UnitPriceUSD, ExtendedPriceUSD from PURCHASE_ITEM to INVOICE_LINE_ITEM.

4.) Add foreign key constraints.

5.) Drop PURCHASE_ITEM

```
/* *** CS8-MI.G *** */
```

```
CREATE TABLE INVOICE(
```

```
InvoiceNumber INT IDENTITY(1,1),
```

```
InvoiceDate DATE,
```

```
StoreID INT FOREIGN KEY REFERENCES STORE(StoreID),
```

```
PurchasingAgentID FOREIGN KEY REFERENCES  
EMPLOYEE(EmployeeID),
```

```
SubtotalUSD INT,
```

```
TaxUSD INT,
```

```
TotalUSD INT
```

```
PRIMARY KEY(InvoiceNumber)
```

```
)
```

```
CREATE TABLE INVOICE_LINE_ITEM(
```

```
LineNumber INT IDENTITY(1,1),
```

```
InvoiceNumber INT FOREIGN KEY REFERENCES  
INVOICE(InvoiceNumber),
```

```
ItemID INT FOREIGN KEY REFERENCES ITEM(ItemID),
```

```
Quantity INT,
```

```
UnitPriceUSD INT,  
ExtendedPriceUSD INT,  
PRIMARY KEY(InvoiceNumber, LineNumber)  
);
```

```
INSERT INTO INVOICE(InvoiceNumber, InvoiceDate, StoreID,  
PurchasingAgentID, SubtotalUSD, TaxUSD, TotalUSD)  
    SELECT PurchaseDate, StoreID, PurchasingAgentID, PriceUSD  
        FROM PURCHASE_ITEM  
;
```

```
INSERT INTO INVOICE_LINE_NUMBER(ItemID)  
    SELECT ItemID  
        FROM ITEM  
;
```

```
DROP TABLE PURCHASE_ITEM;
```