**Question H**

1. **CREATE TABLE EMPLOYEE**(

EmployeeID int NOT NULL IDENTITY (101, 1),

FirsName CHAR(25) NOT NULL,

LastName CHAR(25) NOT NULL,

Department CHAR(35) NOT NULL,

Phone CHAR(12) NULL,

Fax CHAR(12) NULL,

EmailAddress VARCHAR(100) NOT NULL UNIQUE,

CONSTRAINT EMPLOYEE\_PK PRIMARY KEY (EmployeeID));

1. **CREATE TABLE STORE**(

StoreID int NOT NULL IDENTITY (1000, 50),

StoreName CHAR(50) NOT NULL,

City CHAR(35) not null,

Country CHAR(50) not null,

Phone CHAR(12) not null,

Fax CHAR(12) not null,

EmailAddress CHAR(100) null,

Contact CHAR(50) not null,

CONSTRAINT Store\_PK PRIMARY KEY (StoreID),

CONSTRAINT StoreCountry CHECK (Country IN (‘Hong Kong’, ‘India’, ‘Japan’, ‘Peru’, ‘Philippines’, ‘Singapore’, ‘United States’)));

1. **CREATE TABLE ITEM**(

ItemID int not null IDENTITY (500, 5),

StoreID int not null, PurchasingAgentID int not null,

PurchaseDate not null,

ItemDescription VARCHAR(255) not null,

Category CHAR(25) null,

PriceUSD numeric (12, 2) not null,

CONSTRAINT Purchase\_Item\_PK PRIMARY KEY (ItemID),

CONSTRAINT Purchase\_Item\_Store\_FK FOREIGN KEY (StoreID) REFERENCES STORE(StoreID) ON UPDATE NO ACTION ON DELETE NO ACTION,

CONSTRAINT Ship\_Employee\_FK FOREIGN KEY (PurchasingAgentID) REFERENCES EMPLOYEE(EmployeeID) ON UPDATE NO ACTION ON DELETE NO ACTION);

1. **CREATE TABLE SHIPPER**(

ShipperID int not null IDENTITY (1, 1),

ShipperName CHAR(50) not null,

Phone CHAR(12) not null,

Fax CHAR(12) null,

Email Address CHAR(100) null,

Contact CHAR(50) not null,

CONSTRAINT Shipper\_PK PRIMARY KEY (ShipperID));

1. **CREATE TABLE SHIPMENT**(

ShipmentID int not null IDENTITY (100, 1),

ShipperID int not null,

PurchasingAgentID int not null,

ShipperInvoiceNumber int not null,

Origin CHAR(35) not null,

Destination CHAR(35) not null,

ScheduledDepartureDate date null,

ActualDepartureDate date null,

EstimatedArrivalDate date null,

CONSTRAINT Shipment\_PK PRIMARY KEY (ShipmentID),

CONSTRAINT Ship\_Shipper\_FK FOREIGN KEY (ShipperID) REFERENCES SHIPPER(ShipperID) ON UPDAYE CASCADE ON DELETE NO ACTION,

CONSTRAINT Shipment\_Employee\_FK FOREIGN KEY (PurchasingAgentID) REFERENCES EMPLOYEE(EmployeeID) ON UPDATE NO ACTION ON DELETE NO ACTION);

1. **CREATE TABLE SHIPMENT\_ITEM**(

ShipmentID int not null,

ShipmentItemID int not null,

ItemID int not null,

InsuredValue numeric (12, 2) not null,

CONSTRAINT ShipmentItem\_PK PRIMARY KEY (ShipmentID, ShipmentItemID),

CONSTRAINT Ship\_Item\_Ship\_FK FOREIGN KEY (ShipmentID) REFERENCES SHIPMENT (ShipmentID) ON UPDATE NO ACTION ON DELETE CASCADE,

CONSTRAINT Ship\_Item\_Purchase\_Item\_FK FOREIGN KEY (ItemID) REFERENCES ITEM(ItemID) ON UPDATE NO ACTION ON DELETE CASCADE);

1. **CREATE TABLE SHIPMENT\_RECEIPT**(

ReceiptNumber int not null IDENTITY (200001, 1),

ShipmentID int not null,

ItemID int not null,

ReceivingAgentID int not null,

ReceiptDate date not null,

ReceiptTime time not null,

ReceiptQuantity int not null,

IsReceivedDamaged CHAR(3) not null,

DamageNotes CHAR(1000) null,

CONSTRAINT Ship\_Receipt\_Ship\_FK FOREIGN KEY (ShipmentID) REFERENCES SHIPMENT(ShipmentID) ON UPDATE NO ACTION ON DELETE CASCADE,

CONSTRAINT Ship\_Receipt\_Item\_FK FOREIGN KEY (ItemID) REFERENCES ITEM(ItemID) ON UPDATE NO ACTION ON DELETE CASCADE,

CONSTRAINT Ship\_receipt\_Emp\_FK FOREIGN KEY (ReceivingAgentID) REFERENCES EMPLOYEE( EmployeeID));

**Question J**

1. INSERT INTO EMPLOYEE(‘EmployeeID’, ‘LastName’, ‘FirstName’, ‘Department’, ‘Position’, ‘Supervisor’, ‘OfficePhone’, ‘OfficeFax’, ‘EmailAddress’) VALUES (‘101’, ‘Morgan’, ‘James’, ‘Executive’, ‘CEO’, NULL, ‘3102081401’, ‘3102081499’, ‘james.morgan@morganimporting.com’);
2. INSERT INTO STORE(‘StoreID’, ‘StoreName’, City’, ‘Country’, ‘Phone’, ‘Fax’, ‘EmailAddress’, ‘Contact’) VALUES (‘1000’, ‘Eastern Sales’, ‘Singapore’, ‘Singapore’, ‘655431233’, ‘655431239’, ‘sales@easternsales.com.sg’, ‘ Jeremy’);
3. INSERT INTO PURCHASE\_ITEM(‘PurchaseItemID’, ‘StoreID’, ‘PurchasingAgentID’, ‘PurchaseDate’, ‘ItemDescription’, ‘Category’, ‘PriceUSD’) VALUES (‘500’, ‘1050’, ‘101’, ‘12/10/2020’, ‘Antique Large Bureaus’, ‘Furniture’, ‘13415.00’);
4. INSERT INTO SHIPPER(‘ShipperID’, ‘ShipperName’, ‘Phone’, ‘Fax’, ‘EmailAddress’, ‘Contact’) VALUES (‘1’, ‘ABC Trans-Oceanic’, ‘8002345656’, ‘8002345659’, ‘[sales@abctransoceanic.com](mailto:sales@abctransoceanic.com)’, ‘Jonathan’);
5. INSERT INTO SHIPMENT(‘ShipmentID’, ‘ShipperID’, PurchasingAgentID’, ‘ShipperInvoiveNumber’, ‘Origin’, ‘Destination’, ‘ScheduledDepartureDate’, ActualDepartureDate’, EstimatedArrivalDate’) VALUES (‘100’, ‘1’, ‘103’, ‘2017651’, ‘Manila’, ‘Los Angeles’, ’10-Dec-20’, ’10-Dec-20’, ’15-Mar-21’),
6. INSERT INTO SHIPMENT\_ITEM(‘ShipmentID’, ShipmentItemID’, ‘PurchaseItemID’, InsuredValue’) VALUES (‘100’, ‘1’, ‘500’, ‘15000.00’)
7. INSERT INTO SHIPMENT\_RECEIPT(‘ReceiptNumber’, ‘ShipmentID’, ‘PurchaseItemID’, ‘ReceivingAgentID’, ‘ReceiptDate’, ‘ReceiptTime’, ‘ReceiptQuantity’, ‘IsReceivedDamaged’, ‘DamageNotes’) VALUES (‘200001’, ‘100’, ‘500’, ‘105’, ’17-Mar-21’, ’10:00 AM’, ‘3’, ‘Yes’, NULL);

**Question K**

UPDATE STORE

SET City = ‘NYC’

WHERE City = ‘New York City’

**Question M**

CREATE VIEW EmployeeSupervisorView AS

SELECT E1.LastName as EmployeeLastName,

E1.FirstName as EmployeeFirstName,

E1.Position as EmployeePosition,

E2.LastName as SupervisorLastName,

E2.FirstName as SupervisorFirstName,

FROM Employee as E1

LEFT OUTER JOIN E2

ON E1.Supervisor = E2.EmployeeID

WHERE E2.Supervisor is NULL;

SELECT \* FROM EmployeeSupervisorView

**Question O**

CREATE FUNCTION dbo.StoreContactAndPhone(

@StoreContact CHAR(50),

@ContactPhone CHAR(16))

RETURNS VARCHAR(100)

AS

BEGIN

DECLARE @ContactData VARCHAR(100)

SELECT @ContactData = RTRIM(@StoreContact ) + ‘:’ + RTRIM(@ContactPhone );

RETURN @ContactData

END