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 2
 3
 4 -- Drop existing procedures
 5 IF OBJECT_ID('InsertOrderDetails', 'P') IS NOT NULL DROP PROCEDURE
      InsertOrderDetails;
 6 GO
 7
    IF OBJECT_ID('UpdateOrderDetails', 'P') IS NOT NULL DROP PROCEDURE
      UpdateOrderDetails;
 9 GO
10
11 IF OBJECT_ID('GetOrderDetails', 'P') IS NOT NULL DROP PROCEDURE
      GetOrderDetails;
12 GO
13
14 IF OBJECT_ID('DeleteOrderDetails', 'P') IS NOT NULL DROP PROCEDURE
      DeleteOrderDetails:
15 GO
16
17 -- Drop existing functions
18 IF OBJECT_ID('FormatDateMMDDYYYY', 'FN') IS NOT NULL DROP FUNCTION
      FormatDateMMDDYYYY;
19 GO
20
21 IF OBJECT_ID('FormatDateYYYYMMDD', 'FN') IS NOT NULL DROP FUNCTION
      FormatDateYYYYMMDD;
22 GO
23
24 -- Drop existing views
25 IF OBJECT_ID('vwCustomerOrders', 'V') IS NOT NULL DROP VIEW
      vwCustomerOrders;
26 GO
27
28 IF OBJECT_ID('vwCustomerOrdersYesterday', 'V') IS NOT NULL DROP VIEW
      vwCustomerOrdersYesterday;
29 GO
30
31 IF OBJECT_ID('MyProducts', 'V') IS NOT NULL DROP VIEW MyProducts;
32 GO
33
34 -- Drop existing triggers
35 IF OBJECT_ID('trgDeleteOrderDetails', 'TR') IS NOT NULL DROP TRIGGER
      trgDeleteOrderDetails;
36 GO
37
```

38 IF OBJECT_ID('trgCheckInventory', 'TR') IS NOT NULL DROP TRIGGER

trgCheckInventory;

41 -- Create InsertOrderDetails procedure

39 **GO** 40

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```

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2
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```
42 CREATE PROCEDURE InsertOrderDetails
43
        @OrderID INT.
44
        @ProductID INT,
45
        @UnitPrice MONEY = NULL,
46
        @Quantity INT,
47
        @Discount\ DECIMAL(5, 2) = 0
48 AS
49
   BEGIN
50
       IF @UnitPrice IS NULL
51
       BEGIN
52
            SELECT @UnitPrice = ListPrice
            FROM Production. Product
53
54
            WHERE ProductID = @ProductID;
       END
55
56
57
       BEGIN TRY
58
            BEGIN TRANSACTION;
59
            INSERT INTO Sales.SalesOrderDetail (SalesOrderID, ProductID,
60
              UnitPrice, OrderQty, UnitPriceDiscount)
            VALUES (@OrderID, @ProductID, @UnitPrice, @Quantity,
61
              @Discount);
62
            UPDATE Production.ProductInventory
63
64
            SET Quantity = Quantity - @Quantity
            WHERE ProductID = @ProductID;
65
66
67
            IF EXISTS (SELECT 1 FROM Production.ProductInventory WHERE
              ProductID = @ProductID AND Quantity < 0)</pre>
            BEGIN
68
                RAISERROR('Not enough stock', 16, 1);
69
70
                ROLLBACK TRANSACTION;
71
                RETURN;
72
            END
73
74
            COMMIT TRANSACTION;
       END TRY
75
76
       BEGIN CATCH
77
            ROLLBACK TRANSACTION;
78
            RAISERROR('Failed to place the order. Please try again.', 16,
              1);
79
       END CATCH
80 END;
81 GO
82
83 -- Create UpdateOrderDetails procedure
84 CREATE PROCEDURE UpdateOrderDetails
85
        @OrderID INT,
86
       @ProductID INT,
        @UnitPrice MONEY = NULL,
87
        @Quantity INT = NULL,
88
89
        @Discount DECIMAL(5, 2) = NULL
90 AS
```

```
91
    BEGIN
 92
         -- Variable declarations to store original values
 93
        DECLARE @OriginalUnitPrice MONEY;
 94
        DECLARE @OriginalQuantity INT;
 95
        DECLARE @OriginalDiscount DECIMAL(5, 2);
 96
 97
        -- Fetch original values if input values are NULL
 98
        SELECT
 99
             @OriginalUnitPrice = UnitPrice,
100
             @OriginalQuantity = OrderQty,
             @OriginalDiscount = UnitPriceDiscount
101
        FROM
102
103
             Sales.SalesOrderDetail
        WHERE
104
105
             SalesOrderID = @OrderID
             AND ProductID = @ProductID;
106
107
108
        -- If input parameters are NULL, use original values
        SET @UnitPrice = ISNULL(@UnitPrice, @OriginalUnitPrice);
109
110
         SET @Quantity = ISNULL(@Quantity, @OriginalQuantity);
        SET @Discount = ISNULL(@Discount, @OriginalDiscount);
111
112
        -- Update the order details
113
        UPDATE Sales.SalesOrderDetail
114
115
        SET
116
             UnitPrice = @UnitPrice,
             OrderQty = @Quantity,
117
118
             UnitPriceDiscount = @Discount
119
        WHERE
             SalesOrderID = @OrderID
120
121
             AND ProductID = @ProductID;
122
123
        -- Adjust inventory
124
        DECLARE @QuantityDifference INT = @Quantity - @OriginalQuantity;
125
        UPDATE Production.ProductInventory
126
         SET Quantity = Quantity - @QuantityDifference
127
        WHERE ProductID = @ProductID;
128 END;
129 GO
130
131 -- Create GetOrderDetails procedure
132 CREATE PROCEDURE GetOrderDetails
133
        @OrderID INT
134 AS
135 BEGIN
         IF NOT EXISTS (SELECT 1 FROM Sales.SalesOrderDetail WHERE
136
          SalesOrderID = @OrderID)
137
        BEGIN
             RAISERROR('The OrderID %d does not exist', 16, 1, @OrderID);
138
139
             RETURN;
        END
140
141
142
        SELECT *
```

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                                                                              4
143
        FROM Sales SalesOrderDetail
144
        WHERE SalesOrderID = @OrderID;
145 END;
146 GO
147
148 -- Create DeleteOrderDetails procedure
149 CREATE PROCEDURE DeleteOrderDetails
150
        @OrderID INT,
151
        @ProductID INT
152 AS
153 BEGIN
        IF NOT EXISTS (SELECT 1 FROM Sales.SalesOrderDetail WHERE
154
                                                                             P
          SalesOrderID = @OrderID AND ProductID = @ProductID)
155
        BEGIN
156
            PRINT 'Invalid parameters';
157
            RETURN -1;
158
        END
159
        DELETE FROM Sales.SalesOrderDetail
160
161
        WHERE SalesOrderID = @OrderID AND ProductID = @ProductID;
162 END;
163 GO
164
165 -- Create FormatDateMMDDYYYY function
166 CREATE FUNCTION FormatDateMMDDYYYY (@date DATETIME)
167 RETURNS VARCHAR(10)
168 AS
169 BEGIN
170
        RETURN CONVERT(VARCHAR(10), @date, 101);
171 END;
172 GO
173
174 -- Create FormatDateYYYYMMDD function
175 CREATE FUNCTION FormatDateYYYYMMDD (@date DATETIME)
176 RETURNS VARCHAR(8)
177 AS
178 BEGIN
        RETURN CONVERT(VARCHAR(8), @date, 112);
179
180 END;
181 GO
182
183 -- Create vwCustomerOrders view
184 CREATE VIEW vwCustomerOrders
185 AS
186 SELECT
        Name AS CompanyName,
187
188
        SOH.SalesOrderID AS OrderID,
189
        SOH.OrderDate,
190
        SOD.ProductID,
```

191

192

193

194

P. Name AS ProductName,

SOD.UnitPrice,

SOD.OrderQty AS Quantity,

SOD.UnitPrice * SOD.OrderQty AS TotalPrice

```
195 FROM
196
        Sales Customer AS C
197 JOIN
        Sales.SalesOrderHeader AS SOH ON C.CustomerID = SOH.CustomerID
198
199 JOIN
200
        Sales.SalesOrderDetail AS SOD ON SOH.SalesOrderID =
          SOD.SalesOrderID
201 JOIN
202
        Production.Product AS P ON SOD.ProductID = P.ProductID;
203 GO
205 -- Create vwCustomerOrdersYesterday view
206 CREATE VIEW vwCustomerOrdersYesterday
207 AS
208 SELECT *
209 FROM vwCustomerOrders
210 WHERE OrderDate = CONVERT(DATE, GETDATE() - 1);
211 GO
212
213 -- Create MyProducts view
214 CREATE VIEW MyProducts
215 AS
216 SELECT
217
        P.ProductID,
218
        P. Name AS ProductName,
219
        P.ListPrice AS UnitPrice,
220
        V. Name AS CompanyName,
221
        PC.Name AS CategoryName
222 FROM
223
        Production.Product P
224 JOIN
225
        Purchasing.ProductVendor PV ON P.ProductID = PV.ProductID
226 JOIN
227
        Purchasing.Vendor V ON PV.BusinessEntityID = V.BusinessEntityID
228 JOIN
        Production.ProductSubcategory PSC ON P.ProductSubcategoryID =
229
          PSC.ProductSubcategoryID
230 JOIN
231
        Production.ProductCategory PC ON PSC.ProductCategoryID =
          PC.ProductCategoryID
232 WHERE
233
        P.DiscontinuedDate IS NULL;
234 GO
235
236 -- Create trgDeleteOrderDetails trigger
237 CREATE TRIGGER trgDeleteOrderDetails
238 ON Sales.SalesOrderHeader
239 INSTEAD OF DELETE
240 AS
241 BEGIN
        DELETE FROM Sales.SalesOrderDetail
242
243
        WHERE SalesOrderID IN (SELECT SalesOrderID FROM deleted);
244
```

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245	DELETE FROM Sales.SalesOrderHeader	
246	<pre>WHERE SalesOrderID IN (SELECT SalesOrderID FROM deleted);</pre>	
247	END;	
248	GO	
249		
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