**1)      Update the categoryName From “Beverages” to "Drinks" in the categories table.**

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**2)      Insert into shipper new record (give any values) Delete that new record from shippers table.**

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**3)      Update categoryID=1 to categoryID=1001. Make sure related products update their categoryID too. Display the both category and products table to show the cascade.**

**Delete the categoryID= “3”  from categories. Verify that the corresponding records are deleted automatically from products.**

**(HINT: Alter the foreign key on products(categoryID) to add ON UPDATE CASCADE, ON DELETE CASCADE, add ON DELETE CASCADE for order\_details(productid) )**

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**Before Update :**

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**After Update:**

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**Categories table getting updated with category\_id = 1001**

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**Products table also got updated due to UPDATE ON CASCASE Constraint**

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**Before delete:**

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**After DELETE (category\_id = 3 from categories table)**

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**Products table records with category\_id also got deleted due to ON DELETE CASCADE constraint**

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**4)      Delete the customer = “VINET”  from customers. Corresponding customers in orders table should be set to null (HINT: Alter the foreign key on orders(customerID) to use ON DELETE SET NULL)**

**Before delete: Orders table with customer\_id = ‘VINET’**

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**After delete:**

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**Customer\_id should be set to null in Orders table:**

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**5)      Insert the following data to Products using UPSERT:**

**product\_id = 100, product\_name = Wheat bread, quantityperunit=1,unitprice = 13, discontinued = 0, categoryID=5**

**product\_id = 101, product\_name = White bread, quantityperunit=5 boxes,unitprice = 13, discontinued = 0, categoryID=5**

**product\_id = 100, product\_name = Wheat bread, quantityperunit=10 boxes,unitprice = 13, discontinued = 0, categoryID=5**

**(this should update the quantityperunit for product\_id = 100)**

1. **Upsert – insert happened**

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**2.upsert – insert happened**

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**A screenshot of a computer

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**3.upsert - update happened since record already exists**

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**quantity per unit got updated to 10**

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**6)      Write a MERGE query:**

**Create temp table with name:  ‘updated\_products’ and insert values as below:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **productID** | **productName** | **quantityPerUnit** | **unitPrice** | **discontinued** | **categoryID** |
| **100** | **Wheat bread** | **10** | **20** | **1** | **5** |
| **101** | **White bread** | **5 boxes** | **19.99** | **0** | **5** |
| **102** | **Midnight Mango Fizz** | **24 - 12 oz bottles** | **19** | **0** | **1** |
| **103** | **Savory Fire Sauce** | **12 - 550 ml bottles** | **10** | **0** | **2** |

**Update the price and discontinued status for from below table ‘updated\_products’ only if there are matching products and updated\_products .discontinued =0**

**If there are matching products and updated\_products .discontinued =1 then delete**

**Insert any new products from updated\_products that don’t exist in products only if updated\_products .discontinued =0.**

**Before Merge is run – data in products table :**

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**We have only product\_id 100 and 101 available. Let’s see what happens after Merge**

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**Now let’s check the data in products table**

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**Now we can see that product\_id 100 got deleted, 101 got updated and 102,103 were inserted so merge query ran successfully**

**USE NEW Northwind DB:**

**7)      List all orders with employee full names. (Inner join)**

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