**10 DMLs required.**

**DML Query 1, TYPE 5: Display all fields of the SHOP table along with the first name, last name and phone number of the account representative for that shop from the EMPLOYEE table. Attribute headings are to be aliased for formatting.**

SELECT TBL\_SHOP.shop\_name as "Shop", TBL\_SHOP.shop\_code as "Shop Code", TBL\_SHOP.address as "Address",

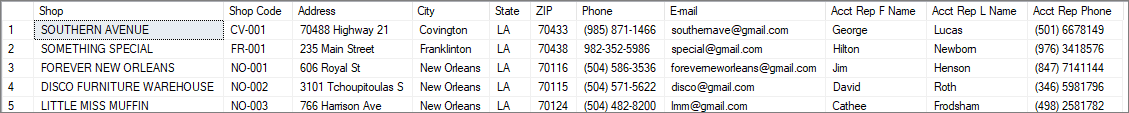
TBL\_SHOP.city as "City", TBL\_SHOP.state as "State", TBL\_SHOP.zip as "ZIP", TBL\_SHOP.phone as "Phone",

TBL\_SHOP.email as "E-mail", TBL\_EMPLOYEE.fname as "Acct Rep F Name" ,

TBL\_EMPLOYEE.lname as "Acct Rep L Name", TBL\_EMPLOYEE.phone as "Acct Rep Phone"

FROM TBL\_SHOP INNER JOIN

TBL\_EMPLOYEE ON TBL\_SHOP.acct\_rep = TBL\_EMPLOYEE.emp\_id

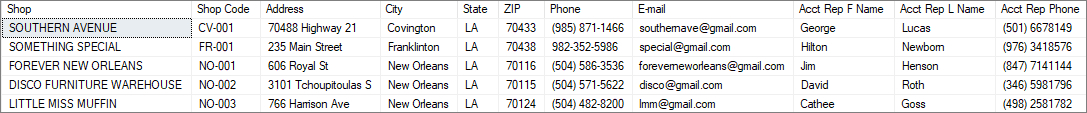


**DML Query 2, TYPE 3: UPDATE the lname field for emp\_id 4 in the EMPLOYEE table to Goss. The change will be reflected in this table as well as be cascaded to the foreign key of the SHOP table.**

UPDATE TBL\_EMPLOYEE

SET lname='Goss'

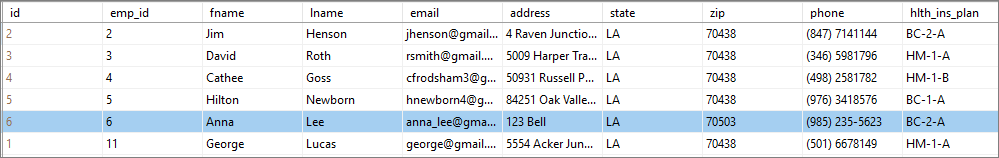
WHERE fname='Cathee' AND lname='Frodsham';



**DML Query 3, TYPE 2: INSERT a new employee record into the EMPLOYEE table.**

INSERT INTO TBL\_EMPLOYEE (emp\_id,fname,lname,email, address, state, ZIP, phone, hlth\_ins\_plan)

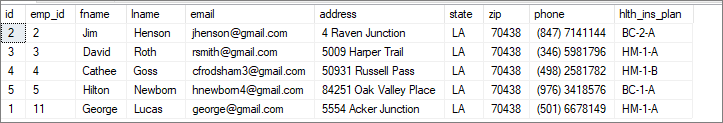
VALUES (6,'Anna', 'Lee', 'anna\_lee@gmail.com', '123 Bell', 'LA', '70503', '(985) 235-5623', 'BC-2-A') ;



**DML Query 4, TYPE 4: DELETE this employee record from the EMPLOYEE table.**

DELETE FROM TBL\_EMPLOYEE

WHERE fname='Anna' AND lname='Lee';



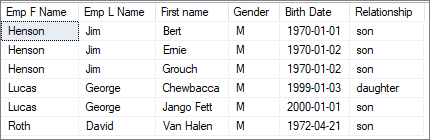
**DML Query 5, TYPE 11: Display the first and last name of an employee along with the first name, gender, birth date and relationship to the employee. Order by the last name of the employee. Attribute headings are to be aliased for formatting.**

SELECT TBL\_EMPLOYEE.lname AS [Emp F Name], TBL\_EMPLOYEE.fname AS [Emp L Name], TBL\_DEPENDENT.fname AS [First name] , TBL\_DEPENDENT.gender AS [Gender] , TBL\_DEPENDENT.b\_date AS [Birth Date] , TBL\_DEPENDENT.relationship AS [Relationship]

FROM TBL\_EMPLOYEE INNER JOIN

TBL\_DEPENDENT ON TBL\_EMPLOYEE.emp\_id = TBL\_DEPENDENT.emp\_id

ORDER BY TBL\_EMPLOYEE.lname;



**DML Query 6, TYPE 15: Display the product code and quantities for products that have been invoiced to each of the shops during the year of 2015 more than 15 times. Order by the shop name. Attribute headings are to be aliased for formatting.**

SELECT TBL\_SHOP.shop\_name AS [Shop Name], TBL\_INVOICE.prdct\_code AS [Product Code], sum(TBL\_INVOICE.quantity) AS Quantity

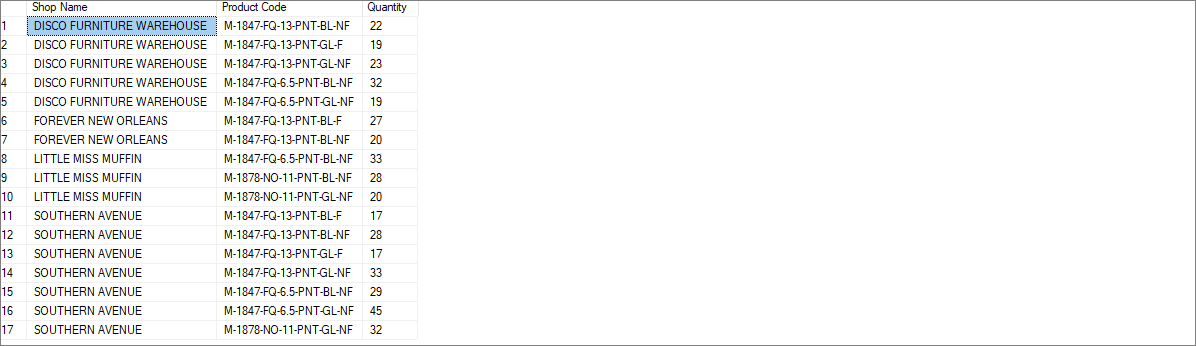
FROM TBL\_INVOICE JOIN TBL\_SHOP ON TBL\_SHOP.shop\_code=TBL\_INVOICE.shop\_code

WHERE TBL\_INVOICE.inv\_date>='2015-01-01' AND TBL\_INVOICE.inv\_date<='2015-12-31'

GROUP BY TBL\_INVOICE.prdct\_code, TBL\_SHOP.shop\_name

HAVING SUM((TBL\_INVOICE.quantity))>15

ORDER BY TBL\_SHOP.shop\_name;



**DML Query 7, TYPE 16: Display the product code and quantities for French Quarter products that have been invoiced to each of the shops during the year of 2015. Order by the shop name. Attribute headings are to be aliased for formatting.**

SELECT TBL\_SHOP.shop\_name AS [Shop Name], TBL\_INVOICE.prdct\_code AS [Product Code], sum(TBL\_INVOICE.quantity) AS Quantity

FROM TBL\_INVOICE JOIN TBL\_SHOP ON TBL\_SHOP.shop\_code=TBL\_INVOICE.shop\_code

WHERE

TBL\_INVOICE.inv\_date>='2015-01-01' AND TBL\_INVOICE.inv\_date<='2015-12-31'

AND TBL\_INVOICE.prdct\_code IN

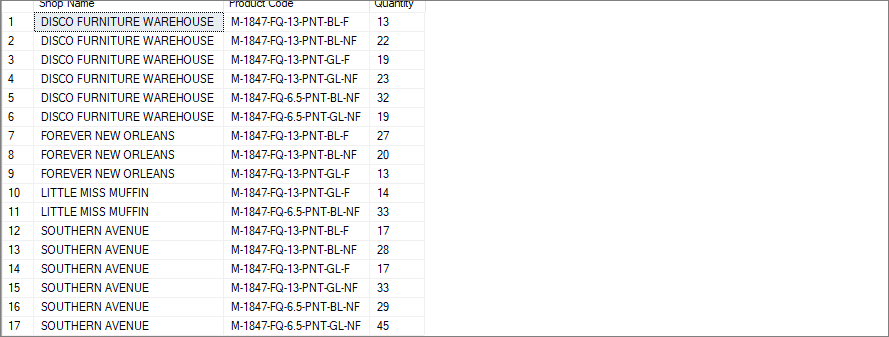
(SELECT TBL\_INVOICE.prdct\_code

FROM TBL\_INVOICE

WHERE TBL\_INVOICE.prdct\_code LIKE '%FQ%')

GROUP BY TBL\_INVOICE.prdct\_code, TBL\_SHOP.shop\_name

ORDER BY TBL\_SHOP.shop\_name;



**DML Query 8, TYPE 1: Create a trigger that will increment the total number of map types in TBL\_PRDCT\_TYPE by 1 when a new map is added to TBL\_PRODUCT.**

CREATE TRIGGER [dbo].[ttl\_map\_prdcts\_increment] ON [dbo].[TBL\_PRODUCT]

FOR INSERT

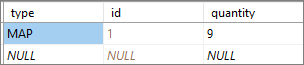
AS BEGIN

UPDATE TBL\_PRDCT\_TYPE

SET dbo.TBL\_PRDCT\_TYPE.quantity=TBL\_PRDCT\_TYPE.quantity+1

WHERE TBL\_PRDCT\_TYPE.TYPE='MAP'

END



**DML Query 9, TYPE 1: Create a trigger that will decrement the total number of map types in TBL\_PRDCT\_TYPE by 1 when a map is deleted from TBL\_PRODUCT.**

CREATE TRIGGER [dbo].[ttl\_map\_prdcts\_decrement] ON [dbo].[TBL\_PRODUCT]

FOR DELETE

AS BEGIN

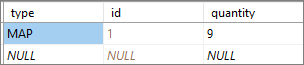
UPDATE TBL\_PRDCT\_TYPE

SET dbo.TBL\_PRDCT\_TYPE.quantity=TBL\_PRDCT\_TYPE.quantity-1

WHERE TBL\_PRDCT\_TYPE.TYPE='MAP'

END

GO



**DML Query 10, TYPE 15: Display the item type, sub type, total cost and total quantity of the materials purchased in 2015 from the EXPENSE table to determine where most material expenditures are made. Attribute headings are to be aliased for formatting.**

SELECT TBL\_EXPENSE.type AS [Item Type], TBL\_EXPENSE.subtype AS [Sub-Type],

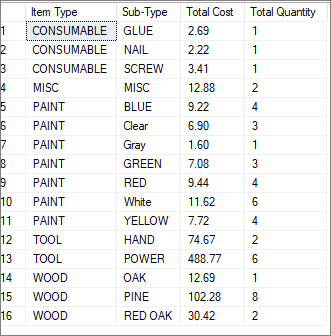
sum(TBL\_EXPENSE.price\*TBL\_EXPENSE.quantity) AS [Total Cost], sum(TBL\_EXPENSE.quantity) AS [Total Quantity]

FROM TBL\_EXPENSE

WHERE TBL\_EXPENSE.date\_purchased>='2015-01-01' AND TBL\_EXPENSE.date\_purchased<='2015-12-31'

GROUP BY TBL\_EXPENSE.type, TBL\_EXPENSE.subtype

ORDER BY TBL\_EXPENSE.type;



**DML Query 11, TYPE 5: Display shop, shop code, product code, shelf price, description, size, accents and framing of items sold at Southern Avenue from the PRICE, SHOP and PRODUCT tables. Attribute headings are to be aliased for formatting.**

SELECT TBL\_SHOP.shop\_name AS Shop, TBL\_SHOP.shop\_code AS [Shop Code], TBL\_PRICE.prdct\_code AS [Product Code], TBL\_PRICE.shelf\_price AS [Shelf Price], TBL\_PRODUCT.description AS Description, TBL\_PRODUCT.size AS [Size], TBL\_PRODUCT.accent\_1 AS Accent\_1, TBL\_PRODUCT.accent\_1\_sub AS Accent\_2, TBL\_PRODUCT.framed AS Framed

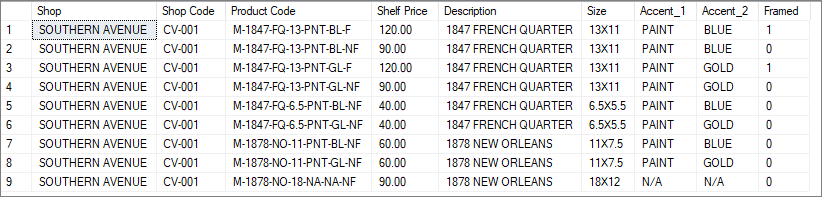
FROM TBL\_SHOP, TBL\_PRICE, TBL\_PRODUCT

WHERE TBL\_PRICE.shop\_code=TBL\_SHOP.shop\_code AND

TBL\_PRICE.prdct\_code=TBL\_PRODUCT.prdct\_code AND

TBL\_SHOP.shop\_code='CV-001'

ORDER BY TBL\_SHOP.shop\_name;



**DML Query 12, TYPE 6: Display the first name and last name of employees from the EMPLOYEE table which has a dependent with the same first name. Attribute headings are to be aliased for formatting.**

SELECT TBL\_EMPLOYEE.fname as [First Name], TBL\_EMPLOYEE.lname as [Last Name]

FROM TBL\_EMPLOYEE

WHERE TBL\_EMPLOYEE.emp\_id IN (SELECT emp\_id

FROM TBL\_DEPENDENT

WHERE TBL\_EMPLOYEE.fname=TBL\_DEPENDENT.fname);



**In work**

SELECT TBL\_INVOICE.shop\_code AS [Shop Code], TBL\_INVOICE.prdct\_code AS [Product Code], SUM(TBL\_INVOICE.quantity) AS Quantity

FROM TBL\_INVOICE

WHERE

TBL\_INVOICE.inv\_date>='2016-01-01' AND TBL\_INVOICE.inv\_date<='2016-12-31'

AND TBL\_INVOICE.shop\_code='CV-001'

GROUP BY TBL\_INVOICE.shop\_code, TBL\_INVOICE.prdct\_code

ORDER BY TBL\_INVOICE.prdct\_code

|  |  |  |
| --- | --- | --- |
| **Q TYPE 1: TRIGGER TEST QUERY** | **Q TYPE 2:INSERT DATA** | **Q TYPE 3: UPDATE DATA** |
| **Q TYPE 4: DELETE DATA** | **Q TYPE 5: QUERY DATA** | **Q TYPE 6: QUERY DATA WITH SUB-QUERY IN WHERE CLAUSE** |
| **Q TYPE 7: QUERY DATA WITH SUB-QUERY IN FROM CLAUSE** | **Q TYPE 8: QUERY DATA WITH SUB-QUERY IN SELECT CLAUSE** | **Q TYPE 9: QUERY DATA WITH EXCEPT** |
| **Q TYPE 10: QUERY DATA WITH ANY/SOME/ALL** | **Q TYPE 11: INNER-JOIN-QUERY** | **Q TYPE 12: FULL-OUTER-JOIN-QUERY** |
| **Q TYPE 13: LEFT-OUTER-JOIN-QUERY** | **Q TYPE 14: RIGHT-OUTER-JOIN-QUERY** | **Q TYPE 15: AGGREGATION-JOIN-QUERY WITH GROUP BY & HAVING** |
| **Q TYPE 16: AGGREGATION-JOIN-QUERY WITH SUB-QUERY** | **Q TYPE 17: WITH-QUERY** |  |

SELECT TBL\_INVOICE.shop\_code AS [Shop Code], TBL\_INVOICE.prdct\_code AS [Product Code], SUM(TBL\_INVOICE.quantity\*TBL\_PRICE.shelf\_price)

FROM TBL\_INVOICE, TBL\_PRICE

WHERE TBL\_INVOICE.shop\_code=TBL\_PRICE.shop\_code

AND TBL\_INVOICE.inv\_date>='2016-01-01' AND TBL\_INVOICE.inv\_date<='2016-12-31'

AND TBL\_INVOICE.shop\_code='CV-001'

GROUP BY TBL\_INVOICE.shop\_code, TBL\_INVOICE.prdct\_code

ORDER BY TBL\_INVOICE.prdct\_code;

SELECT TBL\_INVOICE.shop\_code AS [Shop Code], TBL\_INVOICE.prdct\_code AS [Product Code], SUM(TBL\_INVOICE.quantity), SUM(TBL\_PRICE.shelf\_price)

FROM TBL\_INVOICE, TBL\_PRICE

WHERE TBL\_INVOICE.shop\_code=TBL\_PRICE.shop\_code

AND TBL\_INVOICE.inv\_date>='2016-01-01' AND TBL\_INVOICE.inv\_date<='2016-12-31'

AND TBL\_INVOICE.shop\_code='CV-001'

GROUP BY TBL\_INVOICE.shop\_code, TBL\_INVOICE.prdct\_code

ORDER BY TBL\_INVOICE.prdct\_code;