*Edson Sanchez* ITI-3400 Database Programming

**1-1 (#2)**

SELECT

idproduct,

productname,

price,

active,

type,

iddepartment,

stock

FROM

bb\_product;

IDPRODUCT PRODUCTNAME PRICE ACTIVE TYPE IDDEPARTMENT STOCK

1 CapressoBar Model #351 99.99 1 E 2 23

2 Capresso Ultima 129.99 1 E 2 15

3 Eileen 4-cup French Press 32.5 1 E 2 30

4 Coffee Grinder 28.5 1 E 2 26

5 Sumatra 10.5 1 C 1 41

6 Guatamala 10 1 C 1 42

7 Columbia 10.8 1 C 1 61

8 Brazil 10.8 1 C 1 53

9 Ethiopia 10 1 C 1 54

10 Espresso 10 1 C 1 50

10 rows selected.

**1-1 (#3)**

SELECT

idshopper,

b.idbasket,

b.orderplaced,

b.dtordered,

b.dtcreated

FROM

bb\_shopper s

INNER JOIN bb\_basket b USING ( idshopper );

IDSHOPPER IDBASKET ORDERPLACED DTORDERED DTCREATED

21 3 1 23-JAN-12 23-JAN-12

21 4 1 12-FEB-12 12-FEB-12

22 5 1 19-FEB-12 19-FEB-12

22 6 1 01-MAR-12 01-MAR-12

23 7 1 26-JAN-12 26-JAN-12

23 8 1 16-FEB-12 16-FEB-12

23 9 1 02-MAR-12 02-MAR-12

24 10 1 07-FEB-12 07-FEB-12

24 11 1 27-FEB-12 27-FEB-12

25 12 0 19-FEB-12 19-FEB-12

26 13 0 09-FEB-12

26 14 0 10-FEB-12

27 15 0 14-FEB-12

27 16 0 24-FEB-12

14 rows selected.

**1-1 (#4)**

SELECT

idproduct,

p.productname,

pc.categoryname,

pd.optionname

FROM

bb\_product p

INNER JOIN bb\_productoption USING ( idproduct )

INNER JOIN bb\_productoptiondetail pd USING ( idoption )

INNER JOIN bb\_productoptioncategory pc USING ( idoptioncategory );

IDPRODUCT PRODUCTNAME CATEGORYNAME OPTIONNAME

5 Sumatra Size 1/2 LB.

5 Sumatra Size 1 LB.

5 Sumatra Form Whole Bean

5 Sumatra Form Regular Grind

6 Guatamala Size 1/2 LB.

6 Guatamala Size 1 LB.

6 Guatamala Form Whole Bean

6 Guatamala Form Regular Grind

7 Columbia Size 1/2 LB.

7 Columbia Size 1 LB.

7 Columbia Form Whole Bean

7 Columbia Form Regular Grind

8 Brazil Size 1/2 LB.

8 Brazil Size 1 LB.

8 Brazil Form Whole Bean

8 Brazil Form Regular Grind

9 Ethiopia Size 1/2 LB.

9 Ethiopia Size 1 LB.

9 Ethiopia Form Whole Bean

9 Ethiopia Form Regular Grind

10 Espresso Size 1/2 LB.

10 Espresso Size 1 LB.

10 Espresso Form Whole Bean

10 Espresso Form Regular Grind

24 rows selected.

**1-1 (#1 bottom page 27)**

SELECT UNIQUE

idproduct

FROM

bb\_basketitem

ORDER BY

idproduct;

IDPRODUCT

----------

2

4

6

7

8

9

10

7 rows selected.

**1-1 (#2 bottom page 27)**

SELECT

idbasket,

idproduct,

productname,

description

FROM

bb\_product

JOIN bb\_basketitem USING ( idproduct );

IDBASKET IDPRODUCT PRODUCTNAME DESCRIPTION

6 2 Capresso Ultima Coffee and Espresso and Cappuccino Machine. Brews from one espresso to two six ounce cups of coffee

10 4 Coffee Grinder Avoid blade grinders! This mill grinder allows you to choose a fine grind to a coarse grind.

4 4 Coffee Grinder Avoid blade grinders! This mill grinder allows you to choose a fine grind to a coarse grind.

10 6 Guatamala heavy body, spicy twist, aromatic and smokey flavor.

3 6 Guatamala heavy body, spicy twist, aromatic and smokey flavor.

12 6 Guatamala heavy body, spicy twist, aromatic and smokey flavor.

8 7 Columbia dry, nutty flavor and smoothness

16 7 Columbia dry, nutty flavor and smoothness

7 7 Columbia dry, nutty flavor and smoothness

15 7 Columbia dry, nutty flavor and smoothness

9 7 Columbia dry, nutty flavor and smoothness

5 7 Columbia dry, nutty flavor and smoothness

12 7 Columbia dry, nutty flavor and smoothness

10 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste

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16 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste

15 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste

12 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste

13 9 Ethiopia distinctive berry-like flavor and aroma, reminds many of a fruity, memorable wine.

12 9 Ethiopia distinctive berry-like flavor and aroma, reminds many of a fruity, memorable wine.

5 9 Ethiopia distinctive berry-like flavor and aroma, reminds many of a fruity, memorable wine.

11 9 Ethiopia distinctive berry-like flavor and aroma, reminds many of a fruity, memorable wine.

5 10 Espresso dense, caramel-like sweetness with a soft acidity. Roasted somewhat darker than traditional Italian.

6 10 Espresso dense, caramel-like sweetness with a soft acidity. Roasted somewhat darker than traditional Italian.

28 rows selected.

SELECT

idbasket,

p.idproduct,

productname,

description

FROM

bb\_product p,

bb\_basketitem b

WHERE

p.idproduct = b.idproduct;

IDBASKET IDPRODUCT PRODUCTNAME DESCRIPTION

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10 4 Coffee Grinder Avoid blade grinders! This mill grinder allows you to choose a fine grind to a coarse grind.

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28 rows selected.

**1-1 (#4 bottom page 27)**

SELECT

idbasket,

idshopper,

TO\_CHAR(dtordered,'MONTH DD, YYYY') "DATE ORDERED"

FROM

bb\_basket

WHERE

dtordered LIKE '\_\_-FEB-12';

IDBASKET IDSHOPPER DATE ORDERED

4 21 FEBRUARY 12, 2012

5 22 FEBRUARY 19, 2012

8 23 FEBRUARY 16, 2012

10 24 FEBRUARY 07, 2012

11 24 FEBRUARY 27, 2012

12 25 FEBRUARY 19, 2012

6 rows selected.

**1-1 (#5 bottom page 27)**

SELECT

idproduct,

SUM(quantity)

FROM

bb\_basketitem

GROUP BY

idproduct;

IDPRODUCT SUM(QUANTITY)

6 4

2 1

4 2

8 11

7 7

9 6

10 3

7 rows selected.

**1-1 (#6 bottom page 27)**

SELECT

idproduct,

SUM(quantity)

FROM

bb\_basketitem

GROUP BY

idproduct

HAVING

SUM(quantity) < 3;

IDPRODUCT SUM(QUANTITY)

2 1

4 2

**1-3**

For the next page to show the subtotal, shipping amount, tax amount and final total for the order of Figure 1-25 the first step is already solved as the subtotal appears on the page already so that would need to be moved over again to the next page. How that price is calculated is using the bb\_basketitem table and taking the price and quantity and multiplying them by each other to get the total for each item. Then the sum function can be used to add together all the items in that basket giving us the subtotal for the order. To show the shipping amount, you would need the bb\_shipping table and get the number of items in the order and see which range that falls into from the data in the table and which fee that is associated with. For the tax amount to be shown the table BB\_tax needs to be consulted. You would find which state the customer is in using the shipstate field in bb\_basket and then take the tax rate of that state and multiply it by the subtotal that was found beforehand. Then finally for the final amount you would just need to add together the subtotal and the tax amount.