Arlene Waghalter

Assignment #1 **5d6fd18c-9c61-42d2-8e96-8f3ba3e26938**

ITSE 1345 Summer 2018

1/2. Figure 1-22

select idProduct, productname, price, active, type, idDepartment, stock

from bb\_product;

IDPRODUCT PRODUCTNAME PRICE ACTIVE T IDDEPARTMENT STOCK

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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

3. Figure 1-23

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

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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

4. Figure 1-24

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

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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. Produce an unduplicated list of all product IDs for all products that have been sold. Sort the list.

select unique idproduct

from BB\_BASKETITEM

order by idproduct;

IDPRODUCT

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2

4

6

7

8

9

10

7 rows selected

2. Show the basket ID, product ID, product name, and description for all items ordered.

(Do it two ways – one with an ANSI join and one with a traditional join.)

ANSI:

select idBasket, idProduct, productname, description

from BB\_BASKETITEM natural join BB\_PRODUCT;

IDBASKET IDPRODUCT PRODUCTNAME DESCRIPTION

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3 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste

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

5 7 Columbia dry, nutty flavor and smoothness

5 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste

5 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.

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

7 7 Columbia dry, nutty flavor and smoothness

7 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste

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

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

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

12 7 Columbia dry, nutty flavor and smoothness

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

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

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

23 rows selected

Traditional:

select idBasket, bb\_product.idProduct, productname, description

from BB\_BASKETITEM, BB\_PRODUCT

where BB\_BASKETITEM.IDPRODUCT = BB\_PRODUCT.IDPRODUCT;

IDBASKET IDPRODUCT PRODUCTNAME DESCRIPTION

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

3 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste

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15 7 Columbia dry, nutty flavor and smoothness

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

16 7 Columbia dry, nutty flavor and smoothness

28 rows selected

3. Modify the queries in Step 2 to include the customer’s last name.

A. select idBasket, idProduct, productname, description, lastname

from BB\_BASKETITEM join BB\_PRODUCT using (idProduct)

join BB\_BASKET using (idBasket)

join bb\_shopper using (idshopper);

IDBASKET IDPRODUCT PRODUCTNAME DESCRIPTION LASTNAME

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

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

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

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

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

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

5 7 Columbia dry, nutty flavor and smoothness Somner

7 7 Columbia dry, nutty flavor and smoothness Ratman

8 7 Columbia dry, nutty flavor and smoothness Ratman

9 7 Columbia dry, nutty flavor and smoothness Ratman

12 7 Columbia dry, nutty flavor and smoothness Savid

IDBASKET IDPRODUCT PRODUCTNAME DESCRIPTION LASTNAME

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15 7 Columbia dry, nutty flavor and smoothness Parker

16 7 Columbia dry, nutty flavor and smoothness Parker

3 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste Carter

5 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste Somner

7 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste Ratman

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

9 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste Ratman

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

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

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

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

IDBASKET IDPRODUCT PRODUCTNAME DESCRIPTION LASTNAME

---------- ---------- ------------------------- ---------------------------------------------------------------------------------------------------- --------------------

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

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

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

28 rows selected

B. select BB\_BASKETITEM.idBasket, BB\_BASKETITEM.idProduct, productname, description, lastname

from BB\_BASKETITEM, BB\_PRODUCT, BB\_BASKET, bb\_shopper

where BB\_BASKETITEM.IDPRODUCT = BB\_PRODUCT.IDPRODUCT

and BB\_BASKETITEM.IDBASKET = BB\_BASKET.IDBASKET

and BB\_BASKET.IDSHOPPER = bb\_shopper.IDSHOPPER;

IDBASKET IDPRODUCT PRODUCTNAME DESCRIPTION LASTNAME

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

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7 7 Columbia dry, nutty flavor and smoothness Ratman

8 7 Columbia dry, nutty flavor and smoothness Ratman

9 7 Columbia dry, nutty flavor and smoothness Ratman

12 7 Columbia dry, nutty flavor and smoothness Savid

IDBASKET IDPRODUCT PRODUCTNAME DESCRIPTION LASTNAME

---------- ---------- ------------------------- ---------------------------------------------------------------------------------------------------- --------------------

15 7 Columbia dry, nutty flavor and smoothness Parker

16 7 Columbia dry, nutty flavor and smoothness Parker

3 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste Carter

5 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste Somner

7 8 Brazil well-balanced mellow flavor, a medium body with hints of cocoa and a mild, nut-like aftertaste Ratman

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

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

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

IDBASKET IDPRODUCT PRODUCTNAME DESCRIPTION LASTNAME

---------- ---------- ------------------------- ---------------------------------------------------------------------------------------------------- --------------------

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

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

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

28 rows selected

4. Display all orders (basket ID, shopper ID, and date ordered) placed in February 2012. The date should be displayed in this format: February 12, 2012.

select idbasket, idshopper, to\_char (dtordered, 'Month dd, yyyy') "Date Ordered"

from BB\_BASKET

where dtordered between '1-Feb-12' and '29-Feb-12';

IDBASKET IDSHOPPER Date Ordered

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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

5. Display the total quantity sold by product ID.

select unique idproduct, sum (quantity) "Total Sold"

from bb\_basketitem

group by idproduct

order by IDPRODUCT;

IDPRODUCT Total Sold

---------- ----------

2 1

4 2

6 4

7 7

8 11

9 6

10 3

7 rows selected

6. Modify the query in Step 5 to show only products that have sold less than a quantity of 3.

select unique idproduct, sum (quantity) "Total Sold"

from bb\_basketitem

group by idproduct

having sum (quantity) < 3

order by IDPRODUCT;

IDPRODUCT Total Sold

---------- ----------

2 1

4 2

7. List all active coffee products (product ID, name and price) for all coffee items priced above the overall average of coffee items.

select idproduct, PRODUCTNAME, price

from BB\_PRODUCT

where price > (select avg(price) from bb\_product);

IDPRODUCT PRODUCTNAME PRICE

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1 CapressoBar Model #351 99.99

2 Capresso Ultima 129.99

8. Create a table named CONTACTS that include the following columns.

CREATE TABLE bb\_Contacts

( Con\_id numbeR(4),

Company\_name VARCHAR2(30) NOT NULL,

E\_mail VARCHAR2(30),

Last\_date date DEFAULT SYSDATE,

Con\_cnt NUMBER(3),

CONSTRAINT con\_id\_pk PRIMARY KEY(Con\_id),

CONSTRAINT con\_cnt\_1\_ck CHECK(Con\_cnt > 0));

Table BB\_CONTACTS created.

describe bb\_contacts;

Name Null Type

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CON\_ID NOT NULL NUMBER(4)

COMPANY\_NAME NOT NULL VARCHAR2(30)

E\_MAIL VARCHAR2(30)

LAST\_DATE DATE

CON\_CNT NUMBER(3)

9. INSERT INTO BB\_Contacts

values(0001, 'Jones Delivery', 'jones@jonesco.com', '22-JUN-2018', 1);

INSERT INTO BB\_Contacts

values(0002, 'Monkey Bar Coffee Supplies', 'monkeys@coffeesupplies.com', '', 2);

1 row inserted.

1 row inserted.

INSERT INTO BB\_Contacts

values(0003, 'Yummy Brands Foods', 'yummy@foods.com', default, 3);

1 row inserted.

select \* from bb\_contacts;

CON\_ID COMPANY\_NAME E\_MAIL LAST\_DATE CON\_CNT

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1 Jones Delivery jones@jonesco.com 22-JUN-18 1

2 Monkey Bar Coffee Supplies monkeys@coffeesupplies.com 2

3 Yummy Brands Foods yummy@foods.com 06-JUN-18 3

COMMIT;

Commit complete.

10. Issue a command to change the e-mail value from the first row added to the table. Show a query on the table to confirm that the change was completed. Then issue a command to undo the change.

UPDATE BB\_Contacts

SET E\_MAIL = 'jones@jonescompany.com'

WHERE CON\_ID = 1;

1 row updated.

select \* from bb\_contacts;

CON\_ID COMPANY\_NAME E\_MAIL LAST\_DATE CON\_CNT

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1 Jones Delivery jones@jonescompany.com 22-JUN-18 1

2 Monkey Bar Coffee Supplies monkeys@coffeesupplies.com 2

3 Yummy Brands Foods yummy@foods.com 06-JUN-18 3

ROLLBACK;

Rollback complete.

SELECT \* FROM BB\_Contacts;

CON\_ID COMPANY\_NAME E\_MAIL LAST\_DATE CON\_CNT

---------- ------------------------------ ------------------------------ --------- ----------

1 Jones Delivery jones@jonesco.com 22-JUN-18 1

2 Monkey Bar Coffee Supplies monkeys@coffeesupplies.com 2

3 Yummy Brands Foods yummy@foods.com 06-JUN-18 3