Chapter 6 Lab – Coding Subqueries

Name: \_Bryan Bibb\_\_\_\_ Date: \_\_10/1/2023\_\_\_\_\_\_\_\_\_\_\_\_\_

# Exercise Instructions

1. Type your name and the date into the space provided.
2. Use the SQL Server Management Studio to complete this lab.
3. Write T-SQL statements to query the tables contained in the IST272EagleCorp database and complete each of the exercises in this lab per the directions provided below.
4. Upload and submit before the due date.

1. Write a SELECT that returns CustomerID, CompanyName, CustLastName and Phone of each customer with no orders.

Paste below the **code** you wrote **and the run results** you obtained for exercise 1:

SELECT C.CustomerID, CompanyName, CustLastName, Phone

FROM Customer C

WHERE CustomerID NOT IN

(SELECT CO.CustomerID

FROM CustOrder CO)

ORDER BY C.CustomerID;

10 rows

CustomerID CompanyName CustLastName Phone

C-300075 Last National Bank Baggins 419-376-9458

I-300028 NULL Kaleta 724-695-2157

I-300057 NULL Owens 843-773-2751

I-300079 NULL Wilson 316-210-8989

I-300107 NULL Davis 702-907-4818

I-300113 NULL Darling 860-684-1620

I-300136 NULL Weldy 571-490-6449

I-300159 NULL Uvarris 717-261-4677

I-300160 NULL Zavador 469-261-4677

I-300161 NULL Razor 769-261-4677

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2. Write a SELECT that returns the EmployeeID, LastName, FirstName, and JobTitle of any employee that has packed orders.

Paste below the **code** you wrote **and the run results** you obtained for exercise 2:

SELECT e.EmployeeID, e.LastName, e.FirstName, e.JobTitle

FROM Employee e

WHERE EmployeeID IN

(SELECT DISTINCT ps.EmployeeID

FROM PackingSlip ps)

ORDER BY e.EmployeeID ASC;

9 rows

EmployeeID LastName FirstName JobTitle

100101 Rosner Joanne Assembly

100120 Nairn Michelle Assembly

100204 Keck David Assembly

100967 Albregts Nicholas Assembly

101045 Ortman Austin Assembly

101088 Underwood Patricha Assembly

101097 Brose Jack Assembly

101154 Hettinger Gregory Assembly

101166 Reece Phil Assembly

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3. Write a SELECT statement that answers this question: Which inventory parts weigh less than the average inventory part weight? List the PartDescription for each part that weighs less than the average.

Paste below the **code** you wrote **and the run results** you obtained for exercise 3:

SELECT PartNumber, Weight, PartDescription

FROM InventoryPart

WHERE Weight <

(SELECT AVG(Weight)

FROM InventoryPart)

ORDER BY Weight DESC;

160 rows

PartNumber Weight PartDescription

MOM-001 5.000 ATX-SIZE MOTHERBOARD

SCN-002 4.000 SCANJET BUSINESS SERIES COLOR SCANNER

ADT-001 4.000 ETHERNET FIBER OPTIC MINI-TRANSCEIVER

SCN-001 3.500 SCANJET CSE COLOR SCANNER

SCN-003 3.000 SCANJET PROFESSIONAL SERIES COLOR SCANNER

PS-001 3.000 300 WATT POWER SUPPLY

PS-002 3.000 250 WATT POWER SUPPLY

MEM-004 3.000 30.7GB HARD DRIVE

MEM-005 2.750 20GB HARD DRIVE

MEM-006 2.500 13GB HARD DRIVE

MEM-007 2.000 10.2GB HARD DRIVE

II-102 2.000 Chia Seeds

KEY-001 2.000 NATURAL KEYBOARD PRO

KEY-002 2.000 ERGO KEYBOARD WITH BUILT IN TOUCH PAD

KEY-003 2.000 NATURAL KEYBOARD ELITE

KEY-004 2.000 INTERNET KEYBOARD PRO

KEY-005 2.000 BLACK KEYBOARD

KEY-006 2.000 ERGO KEYBOARD

KEY-007 2.000 INTERNET KEYBOARD

KEY-008 2.000 OPTIMIZED KEYBOARD

KEY-009 2.000 KEYBOARD BASIC

PS-003 2.000 300 WATT PS/2 POWER SUPPLY

PS-004 2.000 250 WATT PS/2 POWER SUPPLY

MEM-008 1.750 8.4GB HARD DRIVE

MEM-009 1.750 4.3GB HARD DRIVE

MEM-012 1.500 100MB INTERNAL ZIP DRIVE

MEM-003 1.500 32 MB MEMORY

ADT-002 1.500 SCSI-3 SNIFFER MALE TO FEMALE

CD-003 1.500 8X4X32 CDRW

DVD-001 1.500 6X DVD-ROM KIT

DVD-002 1.500 10X DVD DRIVE

MEM-010 1.250 3.5IN FLOPPY DRIVE

MEM-011 1.000 1/44MB 3.5IN FLOPPY DRIVE

II-103 1.000 Logo T-Shirt

MEM-002 1.000 4X36-60 72 PIM MEMORY

MOD-004 1.000 PCI V.90 DATA/FAX/VOICE MODEM

CD-004 1.000 4X4X24 CDRW

CAB-019 1.000 12FT IEEE PRINTER CABLE

CAB-027 1.000 2FT 3/1 SCSI CABLE

CD-001 1.000 48X CD-ROM IDE

CD-002 1.000 48XCD-ROM DRIVE

BB-001 1.000 SOCKET 7 BAREBONE

BB-002 1.000 SLOT 1 BAREBONE

BB-003 1.000 ATX MICRO BAREBONE SYSTEM

C-001 1.000 FULL TOWER CASE

SP-002 1.000 QUAD SERIAL TRIPLE PARALLEL ISA BUS

CAB-022 0.938 6FT TANDY PRINTER CABLE

CAB-014 0.938 10FT PC KEYBOARD CABLE D5 MALE TO MALE

II-101 0.890 Chia Pet Toy Computer

CAB-016 0.875 6FT KEYBOARD CABLE MD6 MALE TO FEMALE

CAB-017 0.875 PS/2 EXTENSION CABLE

CAB-008 0.813 10FT PC NULL MODEM DB25 MALE TO FEMALE

CAB-010 0.813 6FT PC NULL MODEM CABLE DB9 FEMALE TO DB25 MALE

CAB-012 0.813 12FT KEYBOARD EXTENSION CABLE MD6 MALE TO MALE

C-002 0.750 MID TOWER CASE

BB-004 0.750 SOCKET MINI BAREBONE

CAB-024 0.750 6FT 3/2 SCSI CABLE

CAB-026 0.750 4FT 3/2 SCSI CABLE

MOD-001 0.750 PCI DATA/FAX/VOICE MODEM

MOD-002 0.750 112K DUAL MODEM

SP-003 0.750 DUAL SERIAL SINGLE PARALLEL ECP/EPPISA BUS

CAB-007 0.688 10FT MODEM CABLE DB25 MALE TO FEMALE

CAB-020 0.688 6FT IEEE PRINTER CABLE

CAB-001 0.688 10FT MONITOR CABLE

CAB-013 0.688 6FT EXTENSION CORD FOR KEYBOARD

CAB-011 0.625 12FT KEYBOARD EXTENSION CABLE MD6 MALE TO FEMALE

CAB-005 0.625 12FT MONITOR/MOUSE EXTENSION CABLE

CAB-023 0.625 PORT ADAPTER

CAB-015 0.625 10FT PC KEYBOARD EXTENSION CABLE D5 MALE TO FEMALE

CAB-018 0.563 6FT COILED EXTENSION D5MALE TO FEMALE

CAB-025 0.563 6FT 2/C50M SCSI CABLE

CAB-003 0.563 10 FT EXTENSION CABLE

CAB-002 0.500 6FT MONITOR CABLE

C-003 0.500 MINI TOWER CASE

BRK-010 0.500 3 1/2IN MOUNTING KIT

CAB-009 0.500 6FT MODEM CABLE DB25 MALE TO FEMALE

BB-005 0.500 SLOT 5 MID BAREBONE

BRK-007 0.500 5 1/4IN MOUNTING KIT

BRK-008 0.500 2 1/2IN MOUNTING KIT

CAB-028 0.500 2FT C50M SCSI CABLE

CAB-021 0.500 12FT TABDY PRINTER CABLE

CF-001 0.500 5.25IN DUAL LCD TEMP READOUT FAN

CF-002 0.500 K7 CPU FAN

CF-003 0.500 BALL BEARING FAN

CF-004 0.500 60MM BALL BEARING FAN

CF-005 0.500 370 SOCKET FAN

CF-006 0.500 SLEEVE CPU FAN

CF-007 0.500 5.25 IN LCD TEMP READOUT FAN

CF-008 0.500 STANDARD BALL BEARING CPU FAN

CF-009 0.500 STANDARD SLEEVE CPU FAN

CRD-001 0.500 AGP VIDEO CARD

MOD-003 0.500 PCI MODEM

MOD-005 0.500 V.90/K56 FLEX 56K FAX MODEM

MEM-001 0.500 2MB FLASH BUFFER MEMORY

ICAB-008 0.500 18 IN DUAL IDE DRIVE CABLE

SP-001 0.500 DUAL SERIAL PARALLEL EPP PCI BUS

SFT-009 0.438 DESKTOP PUBLISHER

SFT-005 0.438 BOARD GAMES

ICAB-007 0.438 28IN 3 DUAL IDE DRIVE CABLE

ICAB-005 0.438 4FT SCSI QUAD INTERNAL DRIVE CABLE

CRD-009 0.438 3DFX 3500 TV

POW-001 0.438 P819 POWER EXTENSION CABLE SET

BRK-006 0.438 BLANK BRACKET

BRK-003 0.438 2X4 USB CABLE AND BRACKET

BRK-001 0.438 2X5 USB CABLE AND BRACKET

BRK-011 0.438 2ND PARALLEL PORT

CAB-004 0.438 10FT MULTI CONSUCTOR EXTENSION CABLE

BRK-002 0.375 1X4 USB CABLE AND BRACKET

BRK-004 0.375 I/R BRACKET WITH CABLE

BRK-009 0.375 DB25/DB9 MOUNTING BRACKET

CRD-005 0.375 4MB VIDEO CARD

SFT-002 0.375 TRAVEL MAPS USA

MIC-003 0.375 PRO MOUSE

MIC-007 0.375 TRACKBALL MOUSE

MIC-008 0.375 FINGER TRACK MOUSE

CRD-008 0.375 2D/3D GRAPHICS CARD WITH 4MB SGRAM

ICAB-006 0.375 2FT UNIVERSAL IDE FLOPPY DRIVE CABLE

SFT-007 0.375 SCREEN SAVER

SFT-006 0.313 CARD GAMES

SFT-004 0.313 HOME AND GARDEN

MIC-002 0.313 EYE MOUSE

MIC-010 0.313 2-BUTTON MOUSE

CRD-004 0.313 MEMORY UPGRADE 4MB

BRK-005 0.313 DUAL SERIAL PORT BRACKET

CAB-006 0.313 15FT MODEM CABLE DB9 FEMALE TO DB25 MALE

CRD-006 0.250 8MB AGP

ICAB-001 0.250 SCSI INTERMAL CABLE 160CM 7-DEVICE

MIC-009 0.250 WHEEL MOUSE

MIC-005 0.250 SCROLLING TRACKBALL MOUSE

MIC-006 0.250 DUAL WHEEL SCROLLING TRACKBALL MOUSE

SFT-003 0.250 1000 BEST GAMES

MIC-012 0.250 ERGO 3-BUTTON MOUSE

ICAB-003 0.250 SCSI INTERNAL CABLE 80CM 3-DEVICE

ICAB-004 0.250 SCSI 6 DRIVE 60IN INTERNAL CABLE

SFT-008 0.250 CLIPART AND FONTS DELUXE

MIC-001 0.188 EXPLORER MOUSE

POW-002 0.188 6IN Y INTERNAL POWER ADAPTER 3.5

POW-003 0.188 6IN Y INTERNAL POWER ADAPTER 5.25

SFT-001 0.188 STREET MAPS USA

MIC-004 0.188 CORDLESS WHEEL MOUSE

MIC-011 0.188 BASIC MOUSE

ICAB-002 0.188 SCSI INTERNAL CABLE 120CM 5-DEVICE

CRD-007 0.188 3D PCI VIDEO CARD

CRD-003 0.188 3DF X PCI CARD

ADT-006 0.188 SCSI TO 3 GENDER CHANGER FEMALE TO FEMALE

ADT-007 0.125 SCSI TO 3/2 ADAPTER MALE TO FEMALE

ADT-005 0.125 SCSI-2 ADAPTER FEMALE TO MALE

ADT-003 0.125 EXTERNAL SCSI-3 MALE TERMINATOR

CRD-002 0.125 PCI CARD

ADT-004 0.063 4 TO 1 REVERSIBLE PARALLEL AUTOSWITCH

P-001 0.063 600 ATHLON PROCESSOR

P-002 0.063 700 ATHLON PROCESSOR

P-003 0.063 850 ATHLON PROCESSOR

P-004 0.063 800 PENTIUM III PROCESSOR

P-005 0.063 700 PENTIUM III PROCESSOR

P-006 0.063 600 PENTIUM III PROCESSOR

P-007 0.063 850 PENTIUM III PROCESSOR

P-008 0.063 600 CELERON PROCESSOR

P-009 0.063 700 CELERON PROCESSOR

P-010 0.063 800 CELERON PROCESSOR

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4. Write a SELECT that returns the EmployeeID, LastName, and JobTitle of any employee that has not packed orders.

Paste below the **code** you wrote **and the run results** you obtained for exercise 4:

SELECT e.EmployeeID, e.LastName, e.JobTitle

FROM Employee e

WHERE EmployeeID NOT IN

(SELECT DISTINCT ps.EmployeeID

FROM PackingSlip ps)

ORDER BY e.EmployeeID ASC;

37 rows

EmployeeID LastName JobTitle

100104 Abbott Engineer

101089 Alvarez Assembly

100559 Blume Engineer

102205 Boden Assembly

100103 Bush VP Operations

100399 Butler Assembly

100365 Cheswick President

101115 Cochran Assembly Engineer

100989 Deagen Assembly

101135 Deppe Assembly

100106 Eckelman Accountant

102207 Edaton Design

100880 German Chief Sales Officer

100330 Gustavel Operations Officer

100475 Hess Assembly

100112 Hickman Programmer Analyst

100700 Jones DBA

101007 Krasner Sales

100650 Lilley VP Information

100001 Manaugh Chief Financial Officer

101030 Moore Assembly

100488 Osman Programmer Analyst

100892 Platt Assembly

102204 Ray Spokes Person

101066 Rodgers Sales

100550 Roland Assembly

102202 Shlick Marketing Manager

100944 Stahley Engineer

100125 Stevenson Chief Information Officer

102206 Tesba Design

100220 Vigus Accountant

102200 Voltare New Products

100127 Wendling Operations Officer

100206 Xolo VP Finance

100209 Yates Senior Engineer

100200 Zobitz Engineer

100600 Zollman Sales

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5. Write a SELECT statement that answers this question: Which inventory parts are heavier than two times the average inventory part weight? List the PartDescription for each part that weighs more than two times the average.

Paste below the **code** you wrote **and the run results** you obtained for exercise 5:

SELECT PartNumber, Weight, PartDescription

FROM InventoryPart

WHERE Weight > 2 \*

(SELECT AVG(Weight)

FROM InventoryPart)

ORDER BY Weight DESC;

34 rows

PartNumber Weight PartDescription

CTR-010 37.440 EAGLE 850 MHZ ATHLON

CTR-003 36.320 EAGLE 8899 TOWER PC

CTR-016 34.440 EAGLE 850 PENTIUM III

CTR-007 33.940 EAGLE INTERNET PC 2000

CTR-002 33.750 EAGLE EZ-2000 TOWER PC

CTR-027 33.500 EAGLE SKYHIGH MINI TOWER PC

CTR-001 33.190 EAGLE 2000 TOWER PC

CTR-012 32.750 EAGLE 700 MHZ PENTIUM III

CTR-026 31.880 EAGLE E-Z MINI TOWER PC

CTR-023 31.570 EAGLE WEB.BLAST

CTR-014 29.820 EAGLE 600 CELERON

CTR-029 28.000 EAGLE 8899 INTERNET PC

CTR-019 27.570 FLY XPST

CTR-024 27.440 EAGLE PRESTIEGE 8100 MID TOWER PC

CTR-005 27.320 EAGLE PRETIEGE 9000

CTR-021 26.500 EAGLE WEB.FUN

II-104 25.000 Logo Rock

CTR-008 21.880 EAGLE 600 MHZ ATHLON

CTR-009 21.630 EAGLE 700 MHZ ATHLON

CTR-004 21.500 EAGLE PRESTIEGE 8000 TOWER PC

CTR-015 21.380 EAGLE 700 CELERON

CTR-020 20.750 FLY XPSB

CTR-017 20.690 EAGLE 800 CELERON

CTR-013 20.690 EAGLE 600 PENTIUM III

CTR-011 20.320 EAGLE 800 MHZ PENTIUM III

CTR-028 20.320 EAGLE 9099 MID TOWER PC

CTR-018 20.070 FLY L

CTR-022 19.630 EAGLE WEB.WILD

CTR-006 19.320 EAGLE 1999 TOWER PC

CTR-025 18.570 EAGLE PRESTIEGE 9000 MID TOWER PC

MON-001 18.000 19IN MULTIMEDIA MONITOR

MON-002 13.000 17IN MULTIMEDIA MONITOR

MON-004 13.000 17IN .27 DOT PITCH MONITOR

MON-005 13.000 17IN DIGIVIEW COLOR MONITOR

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6. Write a SELECT statement that returns the LastName and JobTitle of each employee that has a

SalaryWage greater than that of the highest paid employee with a jobTitle of “Programmer Analyst”.

Paste below the **code** you wrote **and the run results** you obtained for exercise 6:

SELECT LastName, JobTitle

FROM Employee

WHERE SalaryWage >

(SELECT TOP 1 SalaryWage

FROM Employee

WHERE JobTitle IN ('Programmer Analyst'))

ORDER BY LastName ASC;

13 Rows

LastName JobTitle

Blume Engineer

Bush VP Operations

Cheswick President

Cochran Assembly Engineer

Edaton Design

German Chief Sales Officer

Gustavel Operations Officer

Lilley VP Information

Manaugh Chief Financial Officer

Tesba Design

Voltare New Products

Xolo VP Finance

Yates Senior Engineer

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7. Write a SELECT statement that returns the LastName and JobTitle of each employee with a jobtitle other than ‘Engineer’ that has a SalaryWage greater than 65% of what the lowest paid employee with a jobTitle of engineer is paid.

Paste below the **code** you wrote **and the run results** you obtained for exercise 7:

SELECT LastName, JobTitle

FROM Employee

WHERE JobTitle NOT IN ('Engineer') AND

SalaryWage > 0.65 \*

(SELECT MIN(SalaryWage) AS LowWage

FROM Employee

WHERE JobTitle IN ('Engineer'))

ORDER BY LastName ASC;

20 rows

LastName JobTitle

Bush VP Operations

Cheswick President

Cochran Assembly Engineer

Eckelman Accountant

Edaton Design

German Chief Sales Officer

Gustavel Operations Officer

Hickman Programmer Analyst

Jones DBA

Lilley VP Information

Manaugh Chief Financial Officer

Osman Programmer Analyst

Ray Spokes Person

Shlick Marketing Manager

Stevenson Chief Information Officer

Tesba Design

Voltare New Products

Wendling Operations Officer

Xolo VP Finance

Yates Senior Engineer

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8. Write a SELECT statement that returns the OrderID and OrderDate along with the CustomerID, contact (customer last name, first) and Phone of the customer who placed the order if the order has not yet been at least partially shipped. An order is at least partially shipped if the status of any part ordered on the order is SHIPPED.

Paste below the **code** you wrote **and the run results** you obtained for exercise 8:

SELECT DISTINCT C.CustLastName + ', ' + C.CustFirstName AS Contact,

CO.OrderID, CO.OrderDate, CO.CustomerID, C.Phone

FROM CustOrder CO

JOIN Customer C

on CO.CustomerID = C.CustomerID

WHERE OrderID <> ALL

(SELECT COL.OrderID

FROM CustOrderLine COL

WHERE Status LIKE 'Shipped')

ORDER BY Contact;

22 rows

Contact OrderID OrderDate CustomerID Phone

Baggins, Jim 2000000810 2020-01-30 00:00:00 C-300076 419-376-9228

Baker, Tom 2000000798 2017-03-29 00:00:00 I-300134 414-778-5640

Blough, Jim 2000000809 2019-04-30 00:00:00 I-300158 610-261-4677

Cool, Louise 2000000750 2017-03-13 00:00:00 I-300044 208-956-0698

Deets, Mary 2000000795 2017-03-28 00:00:00 C-300053 808-562-4081

Doremski, Archie 2000000797 2017-03-29 00:00:00 C-300032 307-944-8959

Gilliland, Orville2000000800 2017-03-30 00:00:00 C-300069 490-263-2957

Hedden, Joan 2000000703 2017-03-01 00:00:00 I-300024 501-710-0658

Hill, Zack 2000000667 2017-02-23 00:00:00 I-300120 503-794-2322

Huegel, Andy 2000000808 2017-03-31 00:00:00 I-300151 302-620-1366

Jones, Charles 2000000802 2017-03-30 00:00:00 I-300087 919-774-5552

Leong, Patricia 2000000789 2017-03-27 00:00:00 I-300132 520-247-4141

Mangus, Karen 2000000799 2017-03-29 00:00:00 I-300015 863-623-0459

McGrew, Verna 2000000790 2017-03-27 00:00:00 I-300069 334-547-9329

Osborne, Shirley 2000000803 2017-03-30 00:00:00 I-300013 706-333-7174

Osmanova, Larry 2000000801 2017-03-30 00:00:00 C-300026 541-905-4819

Reece, Phil 2000000796 2017-03-29 00:00:00 I-300154 919-486-0649

Rodkey, Daniel 2000000806 2017-03-31 00:00:00 I-300141 719-748-3205

Scheetz, Cecil 2000000807 2017-03-31 00:00:00 C-300003 207-679-9822

Vandermay, Marjorie2000000805 2017-03-31 00:00:00 C-300045 308-489-1137

Wales, Mary Jo 2000000804 2017-03-30 00:00:00 I-300125 852-441-4984

Yaun, Steven 2000000791 2017-03-27 00:00:00 I-300147 317-780-9804

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9. Write a SELECT to list the first name, last name and BirthDate of all employees older than the employee with a job title of “Chief Sales Officer”.

Paste below the **code** you wrote **and the run results** you obtained for exercise 9:

SELECT FirstName, LastName, BirthDate

FROM Employee

WHERE Birthdate <

(SELECT Birthdate

FROM Employee

WHERE JobTitle LIKE ('Chief Sales Officer'))

ORDER BY BirthDate ASC;

FirstName LastName BirthDate

Sherman Cheswick 1968-06-06 00:00:00

Kathleen Xolo 1969-12-01 00:00:00

Jamie Osman 1970-02-08 00:00:00

David Keck 1971-02-07 00:00:00

Beth Zobitz 1971-11-17 00:00:00

Tina Yates 1972-05-01 00:00:00

Meghan Blume 1972-06-23 00:00:00

Ronald Butler 1973-01-01 00:00:00

Kathryn Deagen 1973-06-04 00:00:00

Jason Krasner 1973-07-08 00:00:00

Steven Hickman 1973-08-25 00:00:00

Gregory Hettinger 1974-01-20 00:00:00

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10. Write a query to list Customer order information that consists of the CompanyName, City, State, and OrderWeight.

Limit the rows selected as follows:

Only select rows with state values of: MO, OH, PA, VA, and WY

AND

Only select rows with an OrderWeight more than 243

AND

Only select rows where the CompanyName is not NULL

Sort the rows selected by CompanyName in ASC sequence

Hints:

* The OrderWeight is a calculated value.
* I suggest using a CTE to solve this problem.
* The first step I would take is to write a query that returns the OrderID, and the OrderWeight for each OrderID (refer back to chapter 5 summary queries – you want to use the sum function and a group by). When you get this step working you should see results like the following:

OrderID OrderWeight

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1999000256 38.070

1999000393 3.378

1999000485 67.000

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.

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1999000334 26.752

1999000443 32.750

2000000605 10.128

Note: that data in the database can change. The above numbers reflect the running of the step 1 query on the day this assignment was created. It is possible that the data present when you work this assignment will result in different numbers. These query run results are shown to convey the nature of what you are doing. Not necessarily the specific numbers you will get.

* Once you have written a query that lists the OrderID and the OrderWeight turn it into a CTE (see chapter 6 – page 206 – 209)
* At this point write a select that uses the CTE, the Customer and the CustOrder table (see chapter 4 joins – if you do not recall how to join tables)
  + Hints: If you are rusty with joins open another query tab and get a join of the CustOrder table and Customer table working before work this step.
  + This step is like a three table join:
    - Customer JOIN CustOrder ON Customer.CustomerID = CustOrder.CustomerID
    - Join CTEName ON CTEName.OrderID = CustOrder.OrderID (note the CTEName is whatever you named your CTE, refer back to what you did for the bullet that calls for turning your step 1 query into a CTE)
* When you get this query completed you should see results like the following:

CompanyName City State OrderWeight

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Apartment Referrals Jewett OH 403.029

Apartment Referrals Jewett OH 962.640

BMA Advertising Design Scranton PA 343.560

BMA Advertising Design Scranton PA 441.750

Cheesman Corporation Roanoke VA 333.260

Cottingham Plastics Lima OH 712.740

Needle Center New York City NY 644.100

Realty Specialties Syracuse NY 442.970

Realty Specialties Syracuse NY 706.400

Security Installation York PA 289.630

Security Installation York PA 539.040

Trailor Rentals Rome NY 359.840

(12 row(s) affected)

Note: that data in the database can change. The above numbers reflect the running of this query on the day this assignment was created. It is possible that the data present when you work this assignment will result in different results. These query run results are shown to convey the nature of results. Not necessarily the specific rows you will get.

Paste below the **code** you wrote **and the run results** you obtained for exercise 10:

WITH WeightSum AS

(

SELECT COL.OrderID, SUM(IP.Weight \* COL.OrderQuantity) AS OrderWeight

FROM CustOrderLine COL

JOIN InventoryPart IP

ON COL.PartNumber = IP.PartNumber

GROUP BY COL.OrderID

)

SELECT C.CompanyName, C.City, C.State, OrderWeight

FROM Customer C

JOIN CustOrder CO

ON C.CustomerID = CO.CustomerID

JOIN WeightSum WS

ON WS.OrderID = CO.OrderID

WHERE OrderWeight > 243 AND

CompanyName IS NOT NULL AND

C.State IN ('MO', 'OH', 'PA', 'VA', 'WY')

ORDER BY CompanyName;

10 rows

CompanyName City State OrderWeight

Apartment Referrals Jewett OH 403.029

Apartment Referrals Jewett OH 962.640

BMA Advertising Design Scranton PA 343.560

BMA Advertising Design Scranton PA 441.750

Cheesman Corporation Roanoke VA 333.260

Cottingham Plastics Lima OH 712.740

North Street Church Rock Springs WY 330.840

North Street Church Rock Springs WY 312.200

Security Installation York PA 539.040

Security Installation York PA 289.630

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