Miza Syafiqah Mohamad Shanudin

Lab 4: SQL Query on Multiple Tables

10/14/2021

1. Display employee number, first name, last name, and the job description for all the employees.  You will join MSC\_employee and MSC\_job tables.

SELECT  empl\_number, empl\_first\_name, empl\_last\_name, job\_description FROM MSC\_Employee jOIN MSC\_job ON msc\_employee.job\_code=MSC\_job.job\_code

empl\_number empl\_first\_name      empl\_last\_name       job\_description

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201         George               Feltman              Clerk

202         Jean                 Mayers               CEO

203         Chris                Beaudry              Information Technology

204         David                Goodridge            Warehouse

205         George               Hammer               Clerk

206         Lee                  Chen                 Vice President

207         Karlotta             Charbonneau          Warehouse

208         Aglae                Vazquez              Laborer

209         Venerando            Bruno                Clerk

210         Robert               Golubov              Accountant

211         Nataza               Wisniewska           Laborer

212         Amy                  Morrison             Warehouse

213         Bradley              Lawson               Clerk

214         Linda                Fickes               Salesman

215         Pauline              Childs               Accountant

216         John                 Kenna                Vice President

217         Carolyn              Caban                Maintenance

218         Hunter               Tregurtha            Information Technology

219         Hui                  Tien                 Clerk

220         Jesper               Kristoffersen        Warehouse

221         Katharina            Schultheiss          Laborer

222         Alsan                Salcedo              Laborer

223         Maya                 Rojo                 Clerk

224         Louise               Daniel               Maintenance

225         John                 Jeffries             Salesman

226         Bernard              Brown                Accountant

227         Ralph                Robinson             Clerk

228         Alton                Moser                Laborer

229         Junior               Cowell               Salesman

230         Audrea               Casares              Clerk

(30 rows affected)

Completion time: 2021-10-14T10:59:53.1368837-04:00

1. Write and execute a SELECT statement that will return the customer’s name, city, salesman’s number assigned to customer, and the assigned salesman’s last name for customers located in the state of Pennsylvania.

SELECT cust\_name, cust\_city, salesman\_number, empl\_last\_name FROM MSC\_Customer JOIN MSC\_Employee ON MSC\_Customer.salesman\_number=MSC\_Employee.empl\_number WHERE cust\_state = 'PA'

cust\_name                                          cust\_city            salesman\_number empl\_last\_name

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T&B Machine                                        Cheswick             225             Jeffries

GenVec                                             Dalton               229             Cowell

Toy Engineering                                    Saint Marys          229             Cowell

Buyer Mfg                                          Three Springs        225             Jeffries

(4 rows affected)

Completion time: 2021-10-14T11:15:07.2061769-04:00

1. Display data from the MSC\_Product\_detail table by performing a Three Table Join with the MSC\_Product\_detail, MSC\_Product\_master and MSC\_Vendor tables. The SELECT statement will display product number, product description, vendor name and quantity in stock … and only for product details that have quantity in stock less than 500.  In addition, the result needs to be sorted by ascending value of quantity in stock.

SELECT MSC\_Product\_detail.prod\_number, prod\_description, vend\_name, qty\_in\_stock FROM MSC\_Product\_master JOIN MSC\_Product\_detail ON MSC\_Product\_master.prod\_number = MSC\_Product\_detail.prod\_number JOIN MSC\_Vendor ON MSC\_Product\_detail.vend\_number=MSC\_Vendor.vend\_number WHERE qty\_in\_stock < 500 ORDER BY qty\_in\_stock ASC

prod\_number prod\_description                                   vend\_name                                          qty\_in\_stock

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4009        Pentagon 4” x .5        Young Industries                                   0

4033        Triangle 4” x .5           Industry Magnet Specialists                0

4036        Triangle 12” x .75       Industry Magnet Specialists              37

4008        Pentagon 3” x .25       Industry Magnet Specialists              56

4029        Square 8.5” x .5          Magnum Magnets                               63

4032        Triangle 3” x .25         Custom Magnets                                  72

4031        Triangle 2” x .25"       Custom Magnets                                 102

4024        Round 12” x .75          Custom Magnets                                124

4030        Square 12” x .75        Custom Magnets                                  138

4011        Pentagon 8.5” x .5     New Magnet Company                       190

4001        Oblong 2” x .25"         Magnum Magnets                               197

4016        Rectangle 4” x .75      New Magnet Company                       210

4004        Oblong 4” x .75           New Magnet Company                       212

4006        Oblong 12” x .75         Young Industries                                  248

4001        Oblong 2” x .25"         Custom Magnets                                  274

4024        Round 12” x .75          New Magnet Company                       274

4003        Oblong 4” x .5              Young Industries                                 285

4022        Round 4” x .75             Industry Magnet Specialists              305

4017        Rectangle 8.5” x .5      Industry Magnet Specialists              332

4034        Triangle 4” x .75          Industry Magnet Specialists               335

4020        Round 3” x .25             Custom Magnets                                 350

4007        Pentagon 2” x .25"     Magnum Magnets                                380

4011        Pentagon 8.5” x .5      Custom Magnets                                  407

4007        Pentagon 2” x .25"     New Magnet Company                        446

4029        Square 8.5” x .5          Young Industries                                   461

(25 rows affected)

Completion time: 2021-10-14T11:32:27.8997709-04:00

1. Write a select statement that will display customer number, customer name and the number of orders belonging to the customer. You will need to join two tables, use a COUNT aggregate in your SELECT statement.  You will also need a GROUP BY clause. Override labels with a more descriptive but brief label.

SELECT MSC\_Customer.cust\_number AS Cust#, cust\_name AS CustomerName, COUNT(ord\_number) AS Order# FROM MSC\_Customer JOIN MSC\_Order ON MSC\_Customer.cust\_number = MSC\_Order.cust\_number GROUP BY MSC\_Customer.cust\_number, cust\_name

Cust#       CustomerName                                       Order#

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1001        Texas Instruments                                  8

1002        Arqule                                             5

1003        Dyhax                                              3

1004        Valentis                                           5

1005        Biogen                                             7

1006        Abgenix                                            2

1007        Biocryst                                           4

1008        British Biotech                                    1

1009        Tripos                                             10

1010        Bristol-Myers                                      5

1011        Millenium                                          5

1012        Exiqon                                             2

1013        Keystone Laboratories                              1

1014        Corixa                                             7

1015        New Century                                        3

1016        Vistra                                             3

1017        Thomas & Sons                                      4

1018        Boson Life Sciences                                6

1019        Automotive Supply                                  5

1020        Protein Pathways                                   6

1021        T&B Machine                                        5

1022        Alpha Diagnositic                                  9

1023        Berlex                                             6

1024        Invitrogen                                         10

1025        GenVec                                             7

1026        Alpha DNA                                          11

1027        Arena                                              7

1028        Prototek                                           8

1030        Intracel                                           8

1031        Cellegy                                            5

1032        Caliper                                            4

1033        Matrix                                             3

1034        Alios                                              3

1035        Adolor                                             3

1036        LifeSpan                                           5

1037        Visible Genetics                                   4

1038        Curagen                                            5

1039        Genosys                                            6

1040        Hawaii Biotech                                     1

1041        ABC Stick-ons                                      9

1042        Hyseq                                              5

1043        Contract Production                                4

1044        T.P. Manns                                         3

1045        Immtech                                            9

1046        Ergo Science                                       4

1047        Toy Engineering                                    3

1048        La Jolla Pharma                                    10

1049        Gene Logic                                         5

1050        Xoma                                               6

1051        State Incorporated                                 4

1052        Igen                                               4

1053        Delagen                                            1

1054        Integrated Biomolecule                             5

1055        Buyer Mfg                                          2

1056        Affinity BioReagents                               6

1057        Cell Genesis                                       4

1058        Vysis                                              7

1059        Xcyte                                              6

(58 rows affected)

Completion time: 2021-10-16T18:10:14.6621047-04:00

1. Create and execute a SELECT statement that would provide data for a vendor directory. Display should include vendor number, vendor name, street,  city, state, zip code. Concatenate the address elements to look like ‘1234 Main Street State College, PA 16802’. Override the column labels with meaningful descriptions.

SELECT vend\_number, vend\_name, vend\_street+'.'+vend\_city+'.'+vend\_state+'.'+vend\_zip AS VendorAdress FROM MSC\_Vendor

vend\_number vend\_name                VendorAdress

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3001        Magnum Magnets             210 Industrial Blvd.Clinton.PA.15026

3002        Custom Magnets               1567 Main Street.Schenectady.NY.15235

3003        New Magnet Company     12 Sharon Way.Youngstown.OH.44420

3004        Industry Magnet Specialists      56 2nd Avenue.Franklin.MI.48025

3005        Young Industries                  711 Industry Street.Aurora.CO.80019

(5 rows affected)

Completion time: 2021-10-16T18:14:38.4532681-04:00