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CIS 310 - 02
26 March 2018

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--1
SELECT     C.CUSTOMERID, C.LASTNAME, C.FIRSTNAME, B.MODELTYPE,
PA.COLORLIST, B.ORDERDATE, B.SALESTATE
FROM  CUSTOMER C INNER JOIN CITY CI ON C.CITYID = CI.CITYID
           INNER JOIN BICYCLE B ON C.CUSTOMERID = B.CUSTOMERID
           INNER JOIN PAINT PA ON B.PAINTID = PA.PAINTID
WHERE B.SALESTATE = 'CA'AND COLORNAME = 'WINE COUNTRY'
           AND MODELTYPE LIKE '%MOUNTAIN%' AND B.ORDERDATE BETWEEN
'2003/09/01' AND '2003/09/30'

--2
SELECT     E.EMPLOYEEID, E.LASTNAME, B.SALESTATE, B.MODELTYPE,
R.STOREID, B.ORDERDATE
FROM  EMPLOYEE E INNER JOIN BICYCLE B ON E.EMPLOYEEID = B.EMPLOYEEID
           INNER JOIN RETAILSTORE R ON B.STOREID = R.STOREID
WHERE DATEPART(YY,B.ORDERDATE) = 2001 AND B.SALESTATE = 'WI'
           AND  R.STOREID BETWEEN 1 AND 2

--3
SELECT    DISTINCT C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER
FROM  COMPONENT C INNER JOIN MANUFACTURER M ON C.MANUFACTURERID =
M.MANUFACTURERID
           INNER JOIN BIKEPARTS BP ON C.COMPONENTID = BP.COMPONENTID
           INNER JOIN BICYCLE B ON BP.SERIALNUMBER = B.SERIALNUMBER
WHERE C.CATEGORY = 'Rear derailleur' AND B.MODELTYPE = 'ROAD'
           AND B.SALESTATE = 'FL' AND DATEPART(YY,B.ORDERDATE) = 2002

--4
SELECT     TOP 1 C.CUSTOMERID, C.LASTNAME, C.FIRSTNAME, B.MODELTYPE,
B.SALESTATE, B.FRAMESIZE, B.ORDERDATE
FROM  CUSTOMER C INNER JOIN BICYCLE B ON C.CUSTOMERID = B.CUSTOMERID
WHERE B.MODELTYPE = 'MOUNTAIN FULL' AND B.SALESTATE = 'GA' AND DATEPART(YY,
B.ORDERDATE) = 2004
GROUP BY C.CUSTOMERID, C.LASTNAME, C.FIRSTNAME, B.MODELTYPE, B.SALESTATE,
B.FRAMESIZE, B.ORDERDATE
ORDER BY B.FRAMESIZE DESC

--5
SELECT     TOP 1 M.MANUFACTURERID, M.MANUFACTURERNAME
FROM  MANUFACTURER M INNER JOIN COMPONENT C ON M.MANUFACTURERID =
C.MANUFACTURERID
           INNER JOIN BIKEPARTS BP ON C.COMPONENTID = BP.COMPONENTID
           INNER JOIN BICYCLE B ON BP.SERIALNUMBER = B.SERIALNUMBER
           INNER JOIN PURCHASEITEM P ON C.COMPONENTID = P.COMPONENTID
           INNER JOIN PURCHASEORDER PO ON P.PURCHASEID = PO.PURCHASEID
WHERE DATEPART(YY, B.ORDERDATE) = 2003
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```sql
ORDER BY DISCOUNT DESC

--6
SELECT      TOP 1 C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER,
C.ROAD, C.CATEGORY, C.LISTPRICE, C.QUANTITYONHAND
FROM  COMPONENT C INNER JOIN MANUFACTURER M ON C.MANUFACTURERID =
M.MANUFACTURERID
WHERE ROAD = 'ROAD' AND C.QUANTITYONHAND > 200
ORDER BY C.LISTPRICE DESC

--7
SELECT      TOP 1 C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER,
C.CATEGORY, C.YEAR, SUM(C.ESTIMATEDCOST) AS VALUE
FROM  COMPONENT C INNER JOIN MANUFACTURER M ON C.MANUFACTURERID =
M.MANUFACTURERID
GROUP BY C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER, C.CATEGORY,
C.YEAR
ORDER BY VALUE DESC

--8
SELECT      TOP 1 E.EMPLOYEEID, E.LASTNAME, BP.DATEINSTALLED,
COUNT(BP.COMPONENTID) AS [COUNTOFCOMPONENTID]
FROM  EMPLOYEE E INNER JOIN BICYCLE B ON E.EMPLOYEEID = B.EMPLOYEEID
            INNER JOIN BIKEPARTS BP ON B.SERIALNUMBER = BP.SERIALNUMBER
GROUP BY E.EMPLOYEEID, E.LASTNAME, BP.DATEINSTALLED
ORDER BY COUNTOFCOMPONENTID DESC

--9
SELECT      LETTERSTYLE, COUNT(SERIALNUMBER) AS [COUNTOFSERIALNUMBER]
FROM  BICYCLE B INNER JOIN LETTERSTYLE L ON B.LETTERSTYLEID = L.LETTERSTYLE
WHERE B.MODELTYPE = 'RACE' AND DATEPART(YY,B.ORDERDATE) = 2003
GROUP BY LETTERSTYLE
ORDER BY COUNTOFSERIALNUMBER DESC

--10
SELECT      TOP 1 C.CUSTOMERID, C.LASTNAME, C.FIRSTNAME, COUNT(CUSTOMNAME)
AS [NUMBER OF BIKES], SUM(SALEPRICE) AS [AMOUNT SPENT]
FROM  BICYCLE B INNER JOIN CUSTOMER C ON B.CUSTOMERID = C.CUSTOMERID
WHERE DATEPART(YY,B.ORDERDATE) = 2002
GROUP BY C.CUSTOMERID, C.LASTNAME, C.FIRSTNAME
ORDER BY [AMOUNT SPENT] DESC

--11
SELECT      YEAR(ORDERDATE) AS [SALEYEAR], COUNT(SERIALNUMBER) AS
[COUNTOFSERIALNUMBER]
FROM  BICYCLE
WHERE YEAR(ORDERDATE) = 2000 OR YEAR(ORDERDATE) = 2004 AND MODELTYPE LIKE
'MOUNTAIN%'
GROUP BY YEAR(ORDERDATE)
ORDER BY SALEYEAR

--12
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```sql
SELECT TOP 1 C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER,
C.CATEGORY, SUM(P.PRICEPAID) AS [VALUE]
FROM COMPONENT C INNER JOIN MANUFACTURER M ON C.MANUFACTURERID =
M.MANUFACTURERID
INNER JOIN PURCHASEITEM P ON P.COMPONENTID = C.COMPONENTID
INNER JOIN PURCHASEORDER PO ON PO.PURCHASEID = P.PURCHASEID
WHERE YEAR(PO.ORDERDATE) = '2003'
GROUP BY C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER, C.CATEGORY
ORDER BY VALUE DESC


--13
SELECT     E.EMPLOYEEID, E.LASTNAME, COUNT(PAINTER)[NUMBER PAINTED]
FROM  EMPLOYEE E INNER JOIN BICYCLE B ON E.EMPLOYEEID = B.EMPLOYEEID
WHERE B.PAINTID = '14' AND YEAR(B.STARTDATE) = 2003 AND MONTH(B.STARTDATE)
= 5 AND B.MODELTYPE = 'RACE'
GROUP BY E.EMPLOYEEID, E.LASTNAME
ORDER BY [NUMBER PAINTED] DESC


--14
SELECT     TOP 1 R.STOREID, R.STORENAME, CI.CITY, SUM(B.SALEPRICE) AS
[SUMOFSALEPRICE]
FROM  RETAILSTORE R INNER JOIN BICYCLE B ON R.STOREID = B.STOREID
           INNER JOIN CITY CI ON R.CITYID = CI.CITYID
WHERE CI.STATE = 'CA' AND YEAR(B.ORDERDATE) = 2003
GROUP BY R.STOREID, R.STORENAME, CI.CITY
ORDER BY SUMOFSALEPRICE DESC


--15
SELECT     SUM(C.WEIGHT) AS [TOTALWEIGHT]
FROM  BIKEPARTS B INNER JOIN COMPONENT C ON B.COMPONENTID = C.COMPONENTID
WHERE B.SERIALNUMBER = '11356'


--16
SELECT     GP.GROUPNAME, SUM(C.LISTPRICE) AS [SUMOFLISTPRICE]
FROM  GROUPO GP INNER JOIN GROUPCOMPONENTS GC ON GP.COMPONENTGROUPID =
GC.GROUPID
           INNER JOIN COMPONENT C ON GC.COMPONENTID = C.COMPONENTID
WHERE GROUPNAME = 'CAMPY RECORD 2002'
GROUP BY GP.GROUPNAME


--17
SELECT     T.MATERIAL, COUNT(BU.SERIALNUMBER) AS [COUNTOFSERIALNUMBER]
FROM  TUBEMATERIAL T INNER JOIN BICYCLETUBEUSAGE BU ON T.TUBEID = BU.TUBEID
           INNER JOIN BICYCLE B ON BU.SERIALNUMBER = B.SERIALNUMBER
WHERE T.MATERIAL = 'CARBON FIBER' OR T.MATERIAL = 'TITANIUM'
           AND B.MODELTYPE = 'RACE' AND YEAR(B.ORDERDATE) = 2003
GROUP BY T.MATERIAL
ORDER BY COUNTOFSERIALNUMBER DESC


--18
SELECT     ROUND(AVG(PI.PRICEPAID),2) AS [AVGOFPRICEPAID]
FROM  PURCHASEITEM PI INNER JOIN COMPONENT C ON PI.COMPONENTID =
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         C.COMPONENTID
             INNER JOIN GROUPCOMPONENTS G ON G.COMPONENTID = PI.COMPONENTID
             INNER JOIN GROUPO GP ON GP.COMPONENTGROUPID = G.GROUPID
WHERE GP.GROUPNAME = 'SHIMANO XTR 2001' AND C.CATEGORY = 'REAR DERAILLEUR'

--19
SELECT      AVG(TOPTUBE) AS [AVGOFTOPTUBE]
FROM  BICYCLE
WHERE FRAMESIZE = '54' AND MODELTYPE = 'ROAD' AND YEAR(ORDERDATE) = 1999

--20
SELECT      TOP 1 ROAD, ROUND(AVG(LISTPRICE), 2) AS [AVGOFLISTPRICE]
FROM  COMPONENT
WHERE ROAD = 'MTB' OR ROAD = 'ROAD' AND CATEGORY LIKE 'TIRE%'
GROUP BY ROAD
ORDER BY AVGOFLISTPRICE DESC

--21
SELECT      DISTINCT E.EMPLOYEEID, E.LASTNAME
FROM  EMPLOYEE E INNER JOIN BICYCLE B ON E.EMPLOYEEID = B.EMPLOYEEID
WHERE YEAR(ORDERDATE) = 2003 AND MONTH(ORDERDATE) = 5 AND E.EMPLOYEEID =
B.PAINTER
             AND B.MODELTYPE = 'ROAD'

--22
SELECT      P.PAINTID, P.COLORNAME, COUNT(B.SERIALNUMBER) AS [NUMBER OF
BIKES PAINTED]
FROM  PAINT P INNER JOIN BICYCLE B ON P.PAINTID = B.PAINTID
             INNER JOIN LETTERSTYLE L ON B.LETTERSTYLEID = L.LETTERSTYLE
WHERE YEAR(B.ORDERDATE) = 2002 AND L.LETTERSTYLE = 'ENGLISH'
GROUP BY P.PAINTID, P.COLORNAME
ORDER BY [NUMBER OF BIKES PAINTED] DESC

--23
SELECT      SERIALNUMBER, MODELTYPE, ORDERDATE, SALEPRICE
FROM  BICYCLE
WHERE MODELTYPE = 'RACE' AND YEAR(ORDERDATE) = '2003' AND SALEPRICE >
      (SELECT      AVG(SALEPRICE)
       FROM BICYCLE
       WHERE      MODELTYPE = 'RACE' AND YEAR(ORDERDATE) = '2002'
      )
ORDER BY SALEPRICE DESC

--24
SELECT      TOP 1 M.MANUFACTURERNAME, C.PRODUCTNUMBER, C.CATEGORY,
(ESTIMATEDCOST * QUANTITYONHAND) AS [VALUE], C.COMPONENTID
FROM  COMPONENT C INNER JOIN BIKEPARTS BP ON C.COMPONENTID = BP.COMPONENTID
             INNER JOIN MANUFACTURER M ON C.MANUFACTURERID =
M.MANUFACTURERID
WHERE C.COMPONENTID NOT IN (SELECT COMPONENTID FROM BIKEPARTS WHERE
YEAR(DATEINSTALLED) = 2004)
ORDER BY VALUE DESC
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```sql
--25
SELECT DISTINCT  STORENAME AS [STORE NAME OR MANUFACTURER NAME], PHONE
FROM  RETAILSTORE R INNER JOIN CITY C ON R.CITYID = C.CITYID
                              INNER JOIN BICYCLE B ON R.STOREID = B.STOREID
WHERE STATE = 'CA' AND B.STOREID IN (SELECT DISTINCT STOREID
                                     FROM BICYCLE
                                     WHERE    YEAR(ORDERDATE) =
'2004')
UNION ALL
SELECT DISTINCT MANUFACTURERNAME AS [STORE NAME OR MANUFACTURER NAME],
PHONE
FROM  MANUFACTURER M INNER JOIN CITY C ON M.CITYID = C.CITYID
WHERE STATE = 'CA'
ORDER BY [STORE NAME OR MANUFACTURER NAME]

--26
SELECT LASTNAME = 'Venetiaan',EMPLOYEEID,LASTNAME, FIRSTNAME, TITLE
FROM EMPLOYEE
WHERE CURRENTMANAGER = '15293'

--27
SELECT     C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER,
C.CATEGORY, SUM(QUANTITYRECEIVED) AS [TOTAL RECEIVED], SUM(B.QUANTITY) AS
[TOTAL USED], SUM(QUANTITYRECEIVED) - SUM(B.QUANTITY) AS [NETGAIN],
(SUM(QUANTITYRECEIVED) - SUM(B.QUANTITY))  / SUM(B.QUANTITY) AS
[NETPCT], LISTPRICE
FROM  MANUFACTURER M INNER JOIN COMPONENT C ON M.MANUFACTURERID =
C.MANUFACTURERID
                              INNER JOIN PURCHASEITEM P ON P.COMPONENTID
= C.COMPONENTID
                              INNER JOIN PURCHASEORDER PO ON P.PURCHASEID
= PO.PURCHASEID
                              INNER JOIN BIKEPARTS B ON C.COMPONENTID =
B.COMPONENTID
WHERE PO.RECEIVEDATE < '2000-07-01'
GROUP BY   C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER,
C.CATEGORY, LISTPRICE
HAVING     (SUM(QUANTITYRECEIVED) - SUM(B.QUANTITY))  / SUM(B.QUANTITY)
>= 1.25
ORDER BY   C.COMPONENTID

--28
SELECT YEAR(SHIPDATE) AS [YEAR], AVG(DATEDIFF(DAY, ORDERDATE, SHIPDATE))
AS [BUILDTIME]
FROM BICYCLE
GROUP BY YEAR(SHIPDATE)
HAVING     AVG(DATEDIFF(DAY, ORDERDATE, SHIPDATE)) > (SELECT
AVG(DATEDIFF(DAY, ORDERDATE, SHIPDATE))
FROM BICYCLE)
ORDER BY YEAR(SHIPDATE)
```