



# ASSIGNMENT 7

Due date 3/21/2018

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[Email address]

USE Bike

--1

```
SELECT B.CUSTOMERID, C.LASTNAME, C.FIRSTNAME, B.MODELTYPE, P.COLORLIST, B.ORDERDATE,
B.SALESTATE
FROM BICYCLE B INNER JOIN CUSTOMER C ON B.CUSTOMERID = C.CUSTOMERID
INNER JOIN PAINT P ON B.PAINTID = P.PAINTID INNER JOIN CITY CI ON CI.CITYID = C.CityID
WHERE CI.STATE = 'CA' AND P.COLORLIST = 'RED' AND B.MODELTYPE LIKE 'MOUNTAIN%' AND
B.ORDERDATE BETWEEN '9-1-03' AND '9-30-03'
```

--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 R.STOREID = B.STOREID INNER JOIN CUSTOMER C ON
C.CUSTOMERID = B.CUSTOMERID INNER JOIN CITY CI ON CI.CITYID = C.CITYID
WHERE B.MODELTYPE = 'RACE' AND CI.STATE = 'WI' AND R.STOREID IN ('1', '2') AND
B.ORDERDATE BETWEEN '1-1-01' AND '12-31-01'
```

--3

```
SELECT DISTINCT C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER
FROM COMPONENT C INNER JOIN BIKEPARTS BP ON C.COMPONENTID = BP.COMPONENTID
INNER JOIN BICYCLE B ON B.SerialNumber = BP.SerialNumber INNER JOIN Manufacturer M
ON M.ManufacturerID = C.ManufacturerID
WHERE B.SaleState = 'FL' AND B.ORDERDATE BETWEEN '1-01-02' AND '12-31-02' AND
B.ModelType = 'ROAD' AND C.CATEGORY = 'REAR DERAILLEUR'
```

--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 INNER JOIN
BIKEPARTS BP ON BP.SERIALNUMBER = B.SERIALNUMBER INNER JOIN COMPONENT CT ON
CT.COMPONENTID = BP.COMPONENTID
WHERE B.SALESTATE = 'GA' AND B.ORDERDATE BETWEEN '01-01-04' AND '12-31-04'
AND B.MODELTYPE = 'MOUNTAIN FULL'
ORDER BY B.FRAMESIZE DESC
```

--5

```
SELECT TOP 1 M.MANUFACTURERID, M.MANUFACTURERNAME
FROM PURCHASEORDER P INNER JOIN PURCHASEITEM I ON P.PURCHASEID = I.PURCHASEID
INNER JOIN COMPONENT C ON I.COMPONENTID = C.COMPONENTID INNER JOIN MANUFACTURER M ON
C.MANUFACTURERID = M.MANUFACTURERID
WHERE P.ORDERDATE BETWEEN '01-01-2003' AND '12-31-2003'
ORDER BY P.DISCOUNT DESC
```

--6

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

--7

```
SELECT TOP 1 C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER, C.CATEGORY, C.YEAR,
C.ESTIMATEDCOST * C.QUANTITYONHAND AS 'VALUE'
FROM MANUFACTURER M INNER JOIN COMPONENT C ON M.MANUFACTURERID = C.MANUFACTURERID
ORDER BY VALUE DESC
```

--8

```

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

```

--9

```

SELECT TOP 1 LETTERSTYLEID, COUNT(SERIALNUMBER) AS 'COUNTOFSERIALNUMBER'
FROM   BICYCLE
WHERE  ORDERDATE BETWEEN '01-01-03' AND '12-31-03' AND MODELTYPE = 'RACE'
GROUP BY LETTERSTYLEID
ORDER BY COUNTOFSERIALNUMBER DESC

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--10

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Select C.CustomerID, C.LastName, C.FirstName,
(
Select Count(*)
from Customer C INNER JOIN Bicycle B on
C.CustomerID = B.CustomerID
where year(B.OrderDate) = 2002
group by C.CustomerID, C.LastName, C.FirstName
having sum(B.SalePrice + B.SalesTax
) = (
select top 1 SUM(SalePrice + SalesTax)
from Bicycle
group by CustomerID
order by Sum(SalePrice + SalesTax) desc
)
) as [Number of Bikes], SUM(B.SalePrice + B.SalesTax) as [Amount Spend]
From Customer C INNER JOIN Bicycle B on
C.CustomerID = B.CustomerID
Group by C.CustomerID, C.LastName, C.FirstName
Having SUM(B.SalePrice + B.SalesTax) = (
select top 1 SUM(SalePrice + SalesTax)
from Bicycle
group by CustomerID
order by Sum(SalePrice + SalesTax) desc
)

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--11

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SELECT COUNT(MODELTYPE) AS [SOLD IN 2002]
FROM   BIKE..BICYCLE
WHERE  MODELTYPE LIKE '%MOUNTAIN%' AND ORDERDATE LIKE '%2000%'

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SELECT COUNT(MODELTYPE) AS [SOLD IN 2004]
FROM   BIKE..BICYCLE
WHERE  MODELTYPE LIKE '%MOUNTAIN%' AND ORDERDATE LIKE '%2004%'

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--12

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SELECT I.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER, C.CATEGORY, SUM(I.PRICEPAID)
AS [VALUE]
FROM   BIKE..PURCHASEORDER PO INNER JOIN BIKE..PURCHASEITEM I ON PO.PURCHASEID =
I.PURCHASEID
INNER JOIN BIKE..COMPONENT C ON I.COMPONENTID = C.COMPONENTID
INNER JOIN BIKE..MANUFACTURER M ON C.MANUFACTURERID = M.MANUFACTURERID
WHERE  ORDERDATE LIKE '%2003%'

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GROUP BY I.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER, C.CATEGORY
HAVING SUM(I.PRICEPAID) = (SELECT TOP 1 SUM(PRICEPAID)
                           FROM BIKE..PURCHASEITEM P INNER JOIN
BIKE..PURCHASEORDER PO ON P.PURCHASEID = PO.PURCHASEID
                           WHERE PO.ORDERDATE LIKE '%2003%'
                           GROUP BY COMPONENTID
                           ORDER BY SUM(PRICEPAID) DESC
                           )

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--13

```

SELECT E.EMPLOYEEID, E.LASTNAME, COUNT(B.PAINTID) AS [NUMBERPAINTED]
FROM BIKE..EMPLOYEE E INNER JOIN BIKE..BICYCLE B ON E.EMPLOYEEID = B.EMPLOYEEID
      INNER JOIN BIKE..PAINT P ON B.PAINTID = P.PAINTID
WHERE ORDERDATE BETWEEN '05/01/2003' AND '05/31/2003'
GROUP BY E.EMPLOYEEID, E.LASTNAME

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--14

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SELECT B.STOREID, R.STORENAME, C.CITY, SUM(B.SALEPRICE) AS "SumOfSalePrice"
FROM BIKE..BICYCLE B INNER JOIN BIKE..RETAILSTORE R ON B.STOREID = R.STOREID
      INNER JOIN BIKE..CITY C ON R.CITYID = C.CITYID
WHERE B.SALESTATE = 'CA' AND
      YEAR(B.ORDERDATE) = '2003'
GROUP BY B.STOREID, R.STORENAME, C.CITY
HAVING SUM(B.SALEPRICE) = (SELECT TOP 1 SUM(SALEPRICE)
                           FROM BIKE..BICYCLE B INNER JOIN
BIKE..RETAILSTORE R ON B.STOREID = R.STOREID
                           INNER JOIN BIKE..CITY C ON
R.CITYID = C.CITYID
                           WHERE SALESTATE = 'CA' AND
                           YEAR(ORDERDATE) = '2003'
                           GROUP BY STORENAME
                           ORDER BY SUM(SALEPRICE) DESC
                           )

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--15

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SELECT SUM(CO.WEIGHT) AS TOTALWEIGHT
FROM BIKE..COMPONENT CO INNER JOIN BIKE..BIKEPARTS BP ON CO.COMPONENTID = BP.COMPONENTID
WHERE BP.SERIALNUMBER = 11356

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SELECT G.GROUPNAME, SUM(CO.LISTPRICE) AS SUMOFLISTPRICE
FROM BIKE..GROUPO G INNER JOIN BIKE..GROUPCOMPONENTS GC ON G.COMPONENTGROUPID =
GC.GROUPID
      INNER JOIN BIKE..COMPONENT CO ON GC.COMPONENTID = CO.COMPONENTID
WHERE G.GROUPNAME = 'CAMPY RECORD 2002'
GROUP BY G.GROUPNAME
ORDER BY SUM(CO.LISTPRICE)

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SELECT T.MATERIAL, COUNT(B.SerialNumber) as CountOfSerialNumber
From BIKE..TubeMaterial T INNER JOIN BIKE..BicycleTubeUsage BTU on
      T.TubeID = BTU.TubeID
      INNER JOIN BIKE..Bicycle B on
      BTU.SerialNumber = B.SerialNumber
      INNER JOIN BIKE..BikeTubes BT on
      B.SerialNumber = BT.SerialNumber

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Where Year(B.StartDate) = 2003 AND

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        B.ModelType = 'Race' AND
        (T.Material LIKE '%carbon%' Or
        T.Material LIKE '%Titanium%') AND
        BT.TubeName = 'Down'

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Group by T.Material
Order by Count(*) desc

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Select AVG(P.PricePaid) as AvgOfPricePaid
From Bike..PurchaseItem P INNER JOIN Bike..Component C on
        C.ComponentID = P.ComponentID
        INNER JOIN Bike..GroupComponents GC on
        C.ComponentID = GC.ComponentID
        INNER JOIN Bike..Group G on
        GC.GroupID = G.ComponentGroupID

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Where C.Category = 'Rear Derailleur' AND
      G.GroupName = 'Shimano XTR 2001'

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Select AVG(B.TopTube) as AvgOfTopTube
From Bike..Bicycle B INNER JOIN Bike..BikeTubes BT on

        BT.SerialNumber = B.SerialNumber
        INNER JOIN Bike..BikeParts BP on
        B.SerialNumber = BP.SerialNumber
        INNER JOIN Bike..PurchaseItem P on
        BP.ComponentID = P.ComponentID

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Where B.FrameSize = 54 AND
      B.ModelType = 'Road' AND
      Year(B.StartDate) = 1999 AND
      BT.TubeName = 'Top'

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Select Road, Avg(ListPrice) as AvgOfListPrice
From Bike..Component
Where Category LIKE '%Wheel%' AND

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(Road = 'Road' Or
Road = 'MTB')
Group by Road
Order by AvgOfListPrice desc

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Select Distinct E.EmployeeID, E.LastName
From Bike..Bicycle B INNER JOIN Bike..Employee E on
        B.EmployeeID = E.EmployeeID

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Where B.Painter = B.EmployeeID AND
      Year(B.OrderDate) = 2003 AND
      Month(B.OrderDate) = 5 AND
      B.ModelType = 'Road'

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Select P.PaintID, P.ColorName, Count(*) as [Number of Bikes Painted]
From Bike..Paint P INNER JOIN Bike..Bicycle B on

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                P.PaintID = B.PaintID
Where Year(B.StartDate) = 2002 AND
        B.LetterStyleID = 'English'
Group by P.PaintID, P.ColorName
Order by [Number of Bikes Painted] desc

```

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--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);

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--24
SELECT DISTINCT M.MANUFACTURERNAME, C.PRODUCTNUMBER, C.CATEGORY, (C.ESTIMATEDCOST *
C.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 YEAR(BP.DATEINSTALLED) <> 2004 AND (C.ESTIMATEDCOST * C.QUANTITYONHAND) =
(SELECT MAX(C.ESTIMATEDCOST*C.QUANTITYONHAND)
FROM COMPONENT C
INNER JOIN BIKEPARTS BP ON C.COMPONENTID = BP.COMPONENTID
WHERE YEAR(BP.DATEINSTALLED) <> 2004);

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SELECT R.STORENAME, R.PHONE
FROM RETAILSTORE R
INNER JOIN BICYCLE B ON B.STOREID = R.STOREID
INNER JOIN CITY C ON C.CITYID = R.CITYID
WHERE YEAR(B.ORDERDATE) = 2004 AND (C.STATE = 'CA' OR B.SALESTATE = 'CA')
GROUP BY R.STORENAME, R.PHONE

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SELECT (SELECT LASTNAME
FROM EMPLOYEE
WHERE EMPLOYEEID = (SELECT EMPLOYEEID
FROM EMPLOYEE
WHERE LASTNAME = 'VENETIAAN')) AS [MANAGER NAME], EMPLOYEEID,
FIRSTNAME, LASTNAME, TITLE
FROM EMPLOYEE
WHERE CURRENTMANAGER = (SELECT EMPLOYEEID
FROM EMPLOYEE
WHERE LASTNAME = 'VENETIAAN');

```

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--27
SELECT C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER, C.CATEGORY,
SUM(QUANTITYRECEIVED) AS [TOTAL RECEIVED], SUM(B.QUANTITY) AS [TOTAL USE],
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 B.DATEINSTALLED < '2000-07-01' AND ORDERDATE < '2000-07-01'

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```
GROUP BY C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER, C.CATEGORY, LISTPRICE
HAVING (SUM(QUANTITYRECEIVED) - SUM(B.QUANTITY)) / SUM(B.QUANTITY) >= 1.25;
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--28
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SELECT YEAR(ORDERDATE) AS [YEAR], AVG(DATEDIFF(DAY, ORDERDATE, SHIPDATE)) AS [BUILD TIME]
FROM BICYCLE
GROUP BY YEAR(ORDERDATE)
HAVING AVG(DATEDIFF(DAY, ORDERDATE, SHIPDATE)) > (SELECT AVG(DATEDIFF(DAY, ORDERDATE,
SHIPDATE)) AS [TOTAL AVERAGE]
FROM BICYCLE);
```