Write a query for each of the following questions using the Bike database. For each question your SQL statement must not use views unless necessary. The database is called Bike, just like your database is called CIS310XX. You can access it by choosing it from the Dropdown menu on the upper left corner of the screen in the query window. You must use the given output format for each question. The date functions you may find useful: YEAR, MONTH, DATEDIFF.

Use of View: You may read the pages 377-379 in your textbook for how to create a view. In this assignment you will use views (virtual table) for a few questions. In all those cases a view can be used to store intermediate results. Once a view is created you may use it just like a table (at least for our purposes).

1. List the customers from California who bought red mountain bikes in September 2003. Use order date as date bought.
2. List the employees who sold race bikes shipped to Wisconsin without the help of a retail store in 2001
3. List all of the (distinct) rear derailleurs installed on road bikes sold in Florida in 2002.
4. Who bought the largest (frame size) full suspension mountain bike sold in Georgia in 2004?
5. Which manufacturer gave us the largest discount on an order in 2003?
6. What is the most expensive road bike component we stock that has a quantity on hand greater than 200 units?
7. Which inventory item represents the most money sitting on the shelf—based on estimated cost?
8. What is the greatest number of components ever installed in one day by one employee?
9. What was the most popular letter style on race bikes in 2003?
10. Which customer spent the most money with us and how many bicycles did that person buy in 2002?
11. Have the sales of mountain bikes (full suspension or hard tail) increased or decreased from 2000 to 2004 (by count not by value)? You will list the number sold by year in descending order.
12. Which component did the company spend the most money on in 2003?
13. Which employee painted the most red race bikes in May 2003?
14. Which California bike shop helped sell the most bikes (by value) in 2003?
15. What is the total weight of the components on bicycle 11356?
16. What is the total list price of all items in the 2002 Campy Record groupo?
17. In 2003, were more race bikes built from carbon or titanium (based on the down tube)?
18. What is the average price paid for the 2001 Shimano XTR rear derailleurs?
19. What is the average top tube length for a 54 cm (frame size) road bike built in 1999?
20. On average, which costs (list price) more: road tires or mountain bike tires?
21. In May 2003, which employees sold road bikes that they also painted?
22. In 2002, was the Old English letter style more popular with some paint jobs?
23. Which race bikes in 2003 sold for more than the average price of race bikes in 2002?
24. Which component that had no sales (installations) in 2004 has the highest inventory value (cost basis)?
25. Create a vendor contacts list of all manufacturers and retail stores in California. Include only the columns for VendorName and Phone. The retail stores should only include stores that participated in the sale of at least one bicycle in 2004
26. List all of the employees who report to Venetiaan.
27. List the components where the company purchased at least 25 percent more units than it used through June 30, 2000. An item is used if it has an install date.
28. In which years did the average build time for the year exceed the overall average build time for all years? The build time is the difference between order date and ship date.

Output format for each question.

1CustomerID	LastName	FirstName	ModelType	ColorList	Orde e

2	EmployeeID	LastName	SaleState	ModelType	StoreID	Orde e
3	ComponentID	ManufacturerNam e	ProductNumb er			
4	CustomerID	LastName	FirstName	ModelType	SaleState	Fram e
5	ManufacturerID	ManufacturerNam e				
6	ComponentID	ManufacturerNam e	ProductNumb er	Road	Category	ListPr
7	ComponentID	ManufacturerNam e	ProductNumb er	Category	Year	Value
8	EmployeeID	LastName	DateInstalled	CountOfCompon ents		
9	LetterStyleID	CountOfSerialNum ber				
10	CustomerID	LastName	FirstName	Number of Bikes	Amount Spent	
11	SaleYear	CountOfSerialNum ber				
12	ComponentID	ManufacturerNam e	ProductNumb er	Category	Value	
13	EmployeeID	LastName	Number Painted			
14	StoreID					
15	TotalWeight					
16	GroupName	SumOfListPrice				
17	Material	CountOfSerialNum ber				
18	AvgOfPricePaid					
19	AvgOfTopTube					
20	Road	AvgOfListPrice				
21	EmployeeID	LastName				
22	PaintID	ColorName	Number of Bikes Painted			
23	SerialNumber	ModelType	OrderDate	SalePrice		
24	ManufacturerName	ProductNumber	Category	Value	ComponentI D	
25	Store Name Or Manufacturer Name	Phone				
26	Manager Name	EmployeeID	LastName	FirstName	Title	
27	ComponentID	ManufacturerNam e	ProductNumb er	Category	TotalReceive d	TotalU
28	Year	BuildTime				

Submit the assignment (the SQL statements) before the due date and time on Blackboard. Also submit a stapled printed copy in class on the due date.

Queries:

The following have been spaced out for viewing in word.

```
--A8
-- Tim Mahan

--1
SELECT C.CUSTOMERID, C.FIRSTNAME, C.LASTNAME, B.MODELTYPE,
P.COLORLIST, B.ORDERDATE, B.SaleState
FROM CUSTOMER C INNER JOIN BICYCLE B ON C.CUSTOMERID = B.CUSTOMERID
INNER JOIN PAINT P ON B.PAINTID = P.PAINTID
WHERE P.COLORLIST = 'RED' AND YEAR(B.ORDERDATE) = 2003 AND
MONTH(B.ORDERDATE) = 09 AND B.SaleState = 'CA' AND B.MODELTYPE LIKE
'%MOUNTAIN%'
ORDER BY B.ORDERDATE

--2
SELECT E.EMPLOYEEID, E.LASTNAME, E.FIRSTNAME, B.MODELTYPE, B.STOREID,
B.ORDERDATE
FROM EMPLOYEE E INNER JOIN BICYCLE B ON E.EMPLOYEEID = B.EMPLOYEEID
INNER JOIN CUSTOMER C ON C.CUSTOMERID = B.CUSTOMERID
INNER JOIN CITY CI ON C.CITYID = CI.CITYID
WHERE CI.STATE = 'WI'AND B.ModelType = 'RACE' AND YEAR(B.ORDERDATE) =
2001 AND B.STOREID = NULL

--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 BP.COMPONENTID = C.COMPONENTID
  INNER JOIN BICYCLE B ON B.SERIALNUMBER = BP.SERIALNUMBER
  INNER JOIN CUSTOMER CM ON CM.CustomerID = B.CustomerID
  INNER JOIN CustomerTransaction CT ON CT.CustomerID = CM.CustomerID
WHERE C.CATEGORY = 'REAR DERAILLEUR' AND B.SALESTATE = 'FL' AND
B.MODELTYPE = 'ROAD' AND YEAR(CT.TransactionDate) = 2002

--4
SELECT 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.FRAMESIZE IN (SELECT MAX(B.FRAMESIZE) FROM BICYCLE B WHERE
B.SALESTATE = 'GA' AND B.MODELTYPE = 'MOUNTAIN FULL'
AND YEAR(B.ORDERDATE) = 2004) AND B.SALESTATE = 'GA' AND B.MODELTYPE =
'MOUNTAIN FULL'
AND YEAR(B.ORDERDATE) = 2004
```

```
--5
SELECT DISTINCT M.MANUFACTURERID, M.MANUFACTURERNAME, PO.DISCOUNT,
PO.ORDERDATE
FROM MANUFACTURER M INNER JOIN COMPONENT C ON M.MANUFACTURERID =
C.MANUFACTURERID
INNER JOIN PURCHASEITEM PM ON C.COMPONENTID = PM.COMPONENTID
INNER JOIN PURCHASEORDER PO ON PM.PURCHASEID = PO.PURCHASEID
WHERE YEAR(PO.ORDERDATE) = 2003 AND PO.DISCOUNT IN (SELECT
MAX(PO.DISCOUNT)
           FROM PURCHASEORDER PO
     WHERE YEAR(PO.ORDERDATE) = 2003)

--6
SELECT 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 C.LISTPRICE IN (SELECT MAX(C.LISTPRICE)
           FROM COMPONENT C
           WHERE C.QUANTITYONHAND >200)

--7
SELECT C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER,
C.PRODUCTNUMBER, C.CATEGORY, C.YEAR, C.ESTIMATEDCOST AS VALUE
FROM COMPONENT C INNER JOIN MANUFACTURER M ON C.MANUFACTURERID =
M.MANUFACTURERID
WHERE C.ESTIMATEDCOST IN (SELECT MAX(C.ESTIMATEDCOST)
           FROM COMPONENT C)

--8
SELECT E.EMPLOYEEID, E.LASTNAME, BP.DATEINSTALLED,
COUNT(BP.COMPONENTID) AS 'COUNT OF COMPONENTS'
FROM BIKEPARTS BP INNER JOIN EMPLOYEE E ON BP.EMPLOYEEID =
E.EMPLOYEEID
GROUP BY E.EMPLOYEEID, E.LASTNAME, BP.DATEINSTALLED
HAVING COUNT(COMPONENTID) =(SELECT TOP 1 COUNT(BP.COMPONENTID)
     FROM BIKEPARTS BP INNER JOIN EMPLOYEE E ON BP.EMPLOYEEID =
E.EMPLOYEEID
     WHERE BP.DATEINSTALLED IS NOT NULL
     GROUP BY E.EMPLOYEEID, E.LASTNAME, BP.DATEINSTALLED
     ORDER BY COUNT(COMPONENTID) DESC)
```

```
--9
SELECT LS.LETTERSTYLE, COUNT(B.SERIALNUMBER) AS COUNTOFSERIALNUMBER
FROM BICYCLE B INNER JOIN LETTERSTYLE LS ON B.LETTERSTYLEID =
LS.LETTERSTYLE
WHERE YEAR(B.ORDERDATE) = 2003 AND B.MODELTYPE = 'RACE'
GROUP BY LS.LETTERSTYLE
HAVING COUNT(B.SERIALNUMBER) = (SELECT TOP 1 COUNT(B.SERIALNUMBER)
      FROM BICYCLE B INNER JOIN LETTERSTYLE LS ON B.LETTERSTYLEID =
LS.LETTERSTYLE
      WHERE YEAR(B.ORDERDATE) = 2003 AND B.MODELTYPE = 'RACE'
      GROUP BY LS.LETTERSTYLE
      ORDER BY COUNT(B.SERIALNUMBER) DESC)
ORDER BY COUNT(B.SERIALNUMBER) DESC

--10
SELECT DISTINCT CT.AMOUNT, C.CUSTOMERID, C.LASTNAME, C.FIRSTNAME,
COUNT(SERIALNUMBER) AS 'NUMBER OF BIKES'
FROM BICYCLE B INNER JOIN CUSTOMER C ON B.CUSTOMERID = C.CUSTOMERID
      INNER JOIN CUSTOMERTRANSACTION CT ON CT.CUSTOMERID = C.CUSTOMERID
WHERE YEAR(CT.TRANSACTIONDATE) = 2002 AND CT.AMOUNT = (SELECT TOP 1
CT.AMOUNT
      FROM BICYCLE B INNER JOIN CUSTOMER C ON B.CUSTOMERID =
C.CUSTOMERID
      INNER JOIN CUSTOMERTRANSACTION CT ON CT.CUSTOMERID = C.CUSTOMERID
            WHERE YEAR(CT.TRANSACTIONDATE) = 2002
            ORDER BY CT.AMOUNT DESC)
GROUP BY C.CUSTOMERID, C.LASTNAME, C.FIRSTNAME, B.ORDERDATE, CT.AMOUNT

--11
SELECT COUNT(B.SERIALNUMBER) AS 'COUNT OF SERIAL NUMBER',
YEAR(B.ORDERDATE) AS 'SALE YEAR'
FROM BICYCLE B
WHERE B.MODELTYPE LIKE '%MOUNTAIN%' AND YEAR(B.ORDERDATE) BETWEEN 2000
AND 2004
GROUP BY YEAR(B.ORDERDATE)
ORDER BY YEAR(B.ORDERDATE) DESC
```

```
--12
SELECT C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER, C.CATEGORY,
(P.PRICEPAID*P.Quantity) AS 'VALUE'
FROM COMPONENT C INNER JOIN MANUFACTURER M ON C.ManufacturerID =
M.ManufacturerID
           INNER JOIN PURCHASEITEM P ON C.COMPONENTID = P.COMPONENTID
           INNER JOIN PURCHASEORDER PO ON PO.PURCHASEID = P.PURCHASEID
WHERE YEAR(PO.ORDERDATE) = 2003 AND (P.PRICEPAID*P.Quantity) = (SELECT
TOP 1 (P.PRICEPAID*P.QUANTITY)

      FROM COMPONENT C INNER JOIN MANUFACTURER M ON C.ManufacturerID =
M.ManufacturerID

                 INNER JOIN PURCHASEITEM P ON C.COMPONENTID =
P.COMPONENTID
           INNER JOIN PURCHASEORDER PO ON PO.PURCHASEID = P.PURCHASEID
           WHERE YEAR(PO.ORDERDATE) = 2003
                 ORDER BY (P.PRICEPAID * P.QUANTITY) DESC)

--13
SELECT E.EMPLOYEEID, E.LASTNAME, COUNT(SERIALNUMBER) AS 'NUMBER
PAINTED'
FROM EMPLOYEE E INNER JOIN BICYCLE B ON B.EMPLOYEEID = E.EMPLOYEEID
           INNER JOIN PAINT P ON B.PAINTID = P.PAINTID
WHERE MONTH(B.ORDERDATE) = 5 AND YEAR(B.ORDERDATE) = 2003 AND
B.ModelType = 'RACE' AND P.ColorList = 'RED'
GROUP BY E.EMPLOYEEID, E.LASTNAME
HAVING COUNT(SERIALNUMBER) = (SELECT TOP 1 COUNT(SERIALNUMBER)
       FROM EMPLOYEE E INNER JOIN BICYCLE B ON B.EMPLOYEEID =
       E.EMPLOYEEID
       INNER JOIN PAINT P ON B.PAINTID = P.PAINTID
       WHERE MONTH(B.ORDERDATE) = 5 AND YEAR(B.ORDERDATE) = 2003 AND
B.ModelType = 'RACE' AND P.ColorList = 'RED'
        GROUP BY E.EMPLOYEEID, E.LASTNAME
ORDER BY COUNT(SERIALNUMBER) DESC)

--14
SELECT DISTINCT B.STOREID
FROM BICYCLE B INNER JOIN CUSTOMER C ON B.CUSTOMERID = C.CUSTOMERID
```

```
                    INNER JOIN CUSTOMERTRANSACTION CT ON
CT.CustomerID = C.CustomerID
WHERE B.SALESTATE = 'CA' AND YEAR(CT.TransactionDate) = 2003 AND
CT.AMOUNT = (SELECT TOP 1 MAX(CT.AMOUNT)
FROM BICYCLE B
     INNER JOIN CUSTOMER C ON B.CUSTOMERID = C.CUSTOMERID
     INNER JOIN CUSTOMERTRANSACTION CT ON CT.CustomerID = C.CustomerID
WHERE B.SALESTATE = 'CA' AND YEAR(CT.TransactionDate) = 2003
ORDER BY MAX(CT.AMOUNT) DESC)
```

```
--15
SELECT SUM(CO.WEIGHT) AS 'TOTAL WEIGHT'
FROM BICYCLE B INNER JOIN BIKEPARTS BP ON B.SERIALNUMBER =
BP.SERIALNUMBER
                    INNER JOIN COMPONENT CO ON CO.COMPONENTID =
BP.COMPONENTID
WHERE B.SERIALNUMBER = 11356

--16
SELECT G.GROUPNAME, SUM(C.LISTPRICE) AS 'SUM OF LIST PRICE'
FROM GROUPO G INNER JOIN GROUPCOMPONENTS GC ON GC.GROUPID =
G.ComponentGroupID
                     INNER JOIN COMPONENT C ON C.COMPONENTID =
GC.COMPONENTID
WHERE G.GroupName = 'CAMPY RECORD 2002'
GROUP BY G.GROUPNAME

--17
SELECT      TOP 1 TM.MATERIAL, COUNT(B.SERIALNUMBER) AS "COUNT OF
SERIAL NUMBER"
FROM   BICYCLE B INNER JOIN BICYCLETUBEUSAGE BT ON B.SERIALNUMBER =
BT.SERIALNUMBER
       INNER JOIN TUBEMATERIAL TM ON TM.TUBEID = BT.TUBEID
WHERE YEAR(STARTDATE) = 2003 AND MODELTYPE = 'RACE' AND (TM.MATERIAL =
'CARBON FIBER'  OR TM.MATERIAL = 'TITANIUM')
GROUP BY TM.Material
ORDER BY "COUNT OF SERIAL NUMBER" DESC

--18
SELECT AVG(P.PRICEPAID) AS 'AVERAGE OF PRICE PAID'
FROM COMPONENT C INNER JOIN PURCHASEITEM P ON C.ComponentID =
P.ComponentID
       INNER JOIN MANUFACTURER M ON M.ManufacturerID = C.ManufacturerID
WHERE M.MANUFACTURERNAME LIKE '%SHIMANO%' AND C.Category LIKE '%REAR
DERAILLEUR%' AND C.ProductNumber LIKE '%XTR%'

--19
SELECT AVG(B.TOPTUBE) AS 'AVG OF TOP TUBE'
```

```
FROM BICYCLE B
WHERE B.FRAMESIZE = 54 AND B.MODELTYPE = 'ROAD' AND YEAR(B.SHIPDATE) =
1999

--20
SELECT TOP 1 CO.ROAD, AVG(CO.LISTPRICE) AS 'AVG OF LIST PRICE'
FROM COMPONENT CO
WHERE CO.CATEGORY = 'TIRE' AND CO.ROAD IN ('MTB','ROAD')
GROUP BY CO.ROAD
ORDER BY AVG(LISTPRICE) DESC



--21
SELECT DISTINCT B.EMPLOYEEID, E.LASTNAME
FROM BICYCLE B INNER JOIN EMPLOYEE E ON E.EMPLOYEEID = B.EMPLOYEEID
           INNER JOIN CUSTOMER C ON C.CUSTOMERID = B.CUSTOMERID
           INNER JOIN CUSTOMERTRANSACTION CT ON CT.CUSTOMERID =
C.CUSTOMERID
WHERE YEAR(CT.TransactionDate) = 2003 AND MONTH(CT.TRANSACTIONDATE) =
5 AND CT.EMPLOYEEID = B.PAINTER AND B.MODELTYPE = 'ROAD'

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

--23 Which race bikes in 2003 sold for more than the average price of
race bikes in 2002?
-- 23 SerialNumber    ModelType  OrderDate  SalePrice
SELECT B.SERIALNUMBER, B.MODELTYPE, B.ORDERDATE, B.SALEPRICE
FROM BICYCLE B
WHERE MODELTYPE = 'RACE' AND YEAR(B.ORDERDATE) = 2003 AND B.SALEPRICE
(SELECT AVG(B.SALEPRICE)
     FROM BICYCLE B
              WHERE B.MODELTYPE = 'RACE' AND YEAR(B.ORDERDATE) = 2002)
ORDER BY B.SALEPRICE ASC

--24
SELECT M.MANUFACTURERNAME, C.PRODUCTNUMBER, C.CATEGORY, C.COMPONENTID,
MAX(P.PricePaid) AS VALUE
FROM MANUFACTURER M INNER JOIN COMPONENT C ON M.MANUFACTURERID =
C.MANUFACTURERID
           INNER JOIN PURCHASEITEM P ON P.ComponentID = C.ComponentID
           INNER JOIN BIKEPARTS BP ON BP.COMPONENTID = C.COMPONENTID
WHERE YEAR(DATEINSTALLED) NOT LIKE 2004
```

```
GROUP BY M.MANUFACTURERNAME, C.PRODUCTNUMBER, C.CATEGORY,
C.COMPONENTID
HAVING MAX(P.PRICEPAID) = (SELECT TOP 1 MAX(P.PRICEPAID)
      FROM MANUFACTURER M INNER JOIN COMPONENT C ON M.MANUFACTURERID =
      C.MANUFACTURERID
            INNER JOIN PURCHASEITEM P ON P.ComponentID = C.ComponentID
            INNER JOIN BIKEPARTS BP ON BP.COMPONENTID = C.COMPONENTID
      WHERE YEAR(DATEINSTALLED) NOT LIKE 2004)




--25
CREATE VIEW STORES AS SELECT R.STORENAME AS 'STOREORMANUFACTURERNAME',
R.PHONE AS 'PHONE'
FROM BIKE..RETAILSTORE R INNER JOIN BIKE..BICYCLE B ON B.STOREID =
R.STOREID
       INNER JOIN BIKE..CITY C ON C.CITYID = R.CityID
       INNER JOIN BIKE..CUSTOMER CM ON CM.CustomerID = B.CustomerID
       INNER JOIN BIKE..CustomerTransaction CT ON CT.CustomerID =
CM.CustomerID
WHERE YEAR(CT.TransactionDate) = 2004 AND C.STATE = 'CA'

CREATE VIEW MANUFACTURERS AS SELECT M.MANUFACTURERNAME AS
'STOREORMANUFACTURERNAME', M.PHONE AS 'PHONE'
FROM BIKE..Manufacturer M INNER JOIN BIKE..ManufacturerTransaction MT
ON M.ManufacturerID = MT.ManufacturerID
      INNER JOIN BIKE..CITY C ON C.CityID = M.CityID
WHERE YEAR(MT.TRANSACTIONDATE) = 2004 AND C.STATE = 'CA'
CREATE VIEW CONTACTS AS (SELECT * FROM MANUFACTURERS UNION SELECT*
FROM STORES)
SELECT * FROM CONTACTS

--26
SELECT (SELECT E.LASTNAME
            FROM EMPLOYEE E
            WHERE E.LASTNAME = 'VENETIAAN') 'MANAGER NAME',
E.EMPLOYEEID, E.LASTNAME, E.FIRSTNAME, E.TITLE
FROM EMPLOYEE E INNER JOIN EMPLOYEE M ON E.EMPLOYEEID = M.EMPLOYEEID
WHERE E.CURRENTMANAGER = (SELECT E.EMPLOYEEID
                                    FROM EMPLOYEE E
                                    WHERE E.LASTNAME = 'VENETIAAN')

--27
 SELECT C.COMPONENTID, M.MANUFACTURERNAME, C.PRODUCTNUMBER,
C.CATEGORY, PI.QUANTITYRECEIVED AS "TOTAL RECEIVED",
           ((COUNT(DATEINSTALLED)-PI.QuantityReceived)*(C.LISTPRICE -
PI.PRICEPAID)) AS "NET GAIN",
```

```
            COUNT(P.DATEINSTALLED) AS "TOTAL USED", C.ListPrice,
((COUNT(DATEINSTALLED)-PI.QuantityReceived)/(C.LISTPRICE-
PI.PRICEPAID)) AS "NETPCT"
 FROM COMPONENT C INNER JOIN MANUFACTURER M ON M.MANUFACTURERID =
C.MANUFACTURERID
      INNER JOIN BIKEPARTS P ON P.COMPONENTID = C.COMPONENTID
      INNER JOIN PURCHASEITEM PI ON PI.COMPONENTID = C.COMPONENTID
      INNER JOIN PURCHASEORDER PO ON PO.PURCHASEID = PI.PURCHASEID
WHERE PO.ReceiveDate <= '30-JUN-2000'
GROUP BY C.ComponentID, M.ManufacturerName, C.ProductNumber,
C.Category, PI.QuantityReceived, C.LISTPRICE, PI.PRICEPAID
HAVING PI.QuantityReceived >= 1.25 * COUNT(P.DATEINSTALLED)



--28
SELECT YEAR(B.ORDERDATE) AS 'YEAR', AVG(DATEDIFF(DAY, B.ORDERDATE,
B.SHIPDATE)) AS 'BUILD TIME'
FROM BICYCLE B
GROUP BY YEAR(B.ORDERDATE)
HAVING AVG(DATEDIFF(DAY, B.ORDERDATE, B.SHIPDATE)) > (SELECT
AVG(DATEDIFF(DAY, B.ORDERDATE, B.SHIPDATE)) AS 'TOTAL AVERAGE'
       FROM      BICYCLE B)

ORDER BY YEAR(ORDERDATE) ASC
```