```
USE el23wq_Excelsior;
Project 1: Excelsior Mobile Report
-- The Report Questions (with Visualizations) --
*/
--1--
- - A
SELECT CONCAT (FirstName, ' ', LastName) AS 'Customer full name', L.Minutes AS
'Minutes Usage', L.DataInMB AS 'Data Usage', L.Texts AS 'Text Usage', B.Total AS
'Total bill'
FROM Subscriber AS S, LastMonthUsage AS L, Bill AS B
WHERE S.MIN = L.MIN AND S.MIN = B.MIN
ORDER BY 'Customer full name';
--B--
SELECT S.City, AVG(L.Minutes) AS 'Average Minutes' , AVG(L.DataInMB) AS 'Average Data usage in MB', AVG(L.Texts) AS 'Average Text', AVG(B.Total) AS 'Average Total
bills'
FROM Subscriber AS S, LastMonthUsage AS L, Bill AS B
WHERE S.MIN = L.MIN AND S.MIN = B.MIN
GROUP BY S.City;
-- C--
SELECT S.City, SUM(L.Minutes) AS 'Total Minutes', SUM(L.DataInMB) AS 'Total Data
usage in MB', SUM(L.Texts) As 'Total text', SUM(B.Total) AS 'Total Bills'
FROM Subscriber AS S, LastMonthUsage AS L, Bill AS B
WHERE S.MIN = L.MIN AND S.MIN = B.MIN
GROUP BY S.Citv:
--D--
SELECT S.PlanName, AVG(L.Minutes) AS 'Average Minutes', AVG(L.DataInMB) AS
'Average Data uses in MB', AVG(L.Texts) AS 'Average Text', AVG(B.Total) AS 'Average
Total bills'
FROM Subscriber AS S, LastMonthUsage AS L, Bill AS B
WHERE S.MIN = L.MIN AND S.MIN = B.MIN
GROUP BY S.PlanName;
--E--
SELECT S.PlanName, SUM(L.Minutes) AS 'Total Minutes', SUM(L.DataInMB) AS 'Total
Data uses in MB', SUM(L.Texts) As 'Total text', SUM(B.Total) AS 'Total Bills'
FROM Subscriber AS S, LastMonthUsage AS L, Bill AS B
WHERE S.MIN = L.MIN AND S.MIN = B.MIN
GROUP BY S.PlanName;
--NON
--1--
- - A
SELECT TOP 2 City, COUNT(MIN) AS 'amount of customers'
FROM Subscriber
GROUP BY City
ORDER BY COUNT(MIN) DESC;
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SELECT City, COUNT(MIN) AS 'amount of customers'
FROM Subscriber
GROUP BY City
ORDER BY COUNT(MIN) ASC;
SELECT TOP 1 PlanName, COUNT(MIN) AS 'amount of Customers'
FROM Subscriber
GROUP BY PlanName
ORDER BY COUNT(MIN) ASC;
--2--
- -A
SELECT Type, COUNT(Type) AS 'Phone Type'
FROM Device
GROUP BY Type;
- - B
SELECT S.FirstName, S.LastName
FROM Subscriber as S INNER JOIN DirNums AS D ON S.MDN = D.MDN
                     INNER JOIN Device AS De ON De.IMEI = D.IMEI
GROUP BY FirstName, LastName, De.Type
HAVING De.Type = 'Apple';
- - C
SELECT CONCAT(FirstName, ' ', LastName) AS ' fullname' , D. YearReleased
FROM Subscriber AS S JOIN DirNums AS DI ON S.MDN = DI.MDN
                     JOIN Device AS D ON D.IMEI = DI.IMEI
WHERE YearReleased < 2018
ORDER BY D.YearReleased ASC;
--3--
- - A
SELECT DISTINCT TOP 3 S.City, SUM(L.DataInMB) AS 'Total Data Cities use'
FROM Subscriber AS S INNER JOIN LastMonthUsage AS L ON S.MIN = L.MIN
                     INNER JOIN MPlan AS M ON S.PlanName = M.PlanName
WHERE M.Data NOT IN ('Unlimited')
GROUP BY S.City
ORDER BY SUM(L.DataInMB) DESC;
SELECT TOP 1 S.City
FROM Subscriber AS S JOIN MPlan as M ON S.PlanName = M.PlanName
WHERE Data NOT IN ('Unlimited')
GROUP BY S.City;
- - 4
--A--
SELECT Top 1 B.Total, CONCAT(S.FirstName, ' ', S.LastName) AS 'Customer Full Name'
FROM Subscriber AS S JOIN Bill AS B ON S.MIN = B.MIN
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--B--
SELECT TOP 1 PlanName, SUM(B.Total) AS 'Total Bill Last month'
FROM Subscriber AS S JOIN Bill AS B ON S.MIN = B.MIN
GROUP BY S.PlanName
ORDER BY SUM(B.Total) DESC;
- - 5
--A--
SELECT TOP 1 LEFT(MDN, 3) AS 'Area Code', SUM(L.Minutes) AS 'Total Minutes'
FROM Subscriber AS S JOIN LastMonthUsage AS L ON S.MIN = L.MIN
GROUP BY LEFT(MDN,3)
ORDER BY SUM(L.Minutes) DESC;
--B--
SELECT DISTINCT(S.City)
FROM Subscriber AS S JOIN LastMonthUsage AS L
ON S.MIN = L.MIN AND S.City IN
            (SELECT S.City
            FROM Subscriber AS S JOIN LastMonthUsage AS L
            ON S.MIN = L.MIN
            GROUP BY S.City, L.Minutes
            HAVING L.Minutes > 700)
GROUP BY S.City, L.Minutes
HAVING L.Minutes < 200;
```