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Project 1: Excelsior Mobile Report
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USE el23wq_Excelsior
-- Report Questions with Visualizations
-- 1 --
-- A --
SELECT FirstName, LastName, Minutes, DataInMB, Texts, Total
FROM Subscriber AS S JOIN LastMonthUsage AS LMU
      ON S.MIN = LMU.MIN
      JOIN Bill AS B
      ON S.MIN = B.MIN
ORDER BY FirstName, LastName;
-- B --
SELECT City, AVG(Minutes) AS AVGMin, AVG(DataInMB) AS AVGData, AVG(Texts) AS
AVGTexts, AVG(Total) AS AVGTotalBill
FROM Subscriber AS S JOIN LastMonthUsage AS LMU
      ON S.MIN = LMU.MIN
      JOIN Bill AS B
      ON S.MIN = B.MIN
GROUP BY City;
-- C --
SELECT City, SUM(Minutes) AS SUMMin, SUM(DataInMB) AS SUMData, SUM(Texts) AS
SUMTexts, SUM(Total) AS SUMTotalBill
FROM Subscriber AS S JOIN LastMonthUsage AS LMU
      ON S.MIN = LMU.MIN
      JOIN Bill AS B
      ON S.MIN = B.MIN
GROUP BY City;
SELECT PlanName, AVG(Minutes) AS AVGMin, AVG(DataInMB) AS AVGData, AVG(Texts) AS
AVGTexts, AVG(Total) AS AVGTotalBill
FROM Subscriber AS S JOIN LastMonthUsage AS LMU
      ON S.MIN = LMU.MIN
      JOIN Bill AS B
      ON S.MIN = B.MIN
GROUP BY PlanName;
-- E --
SELECT PlanName, SUM(Minutes) AS SUMMin, SUM(DataInMB) AS SUMData, SUM(Texts) AS
SUMTexts, SUM(Total) AS SUMTotalBill
FROM Subscriber AS S JOIN LastMonthUsage AS LMU
      ON S.MIN = LMU.MIN
      JOIN Bill AS B
      ON S.MIN = B.MIN
GROUP BY PlanName;
-- Report Questions without Visualizations
-- 1 --
-- A --
SELECT TOP 2 City
FROM Subscriber
GROUP BY City
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ORDER BY COUNT(MIN) DESC;
-- B --
SELECT TOP 3 City
FROM Subscriber
GROUP BY City
ORDER BY COUNT(MIN) ASC;
-- C--
SELECT TOP 1 PlanName
FROM Subscriber
WHERE MIN >= 1
GROUP BY PlanName
ORDER BY COUNT(PlanName) ASC;
-- 2 --
-- A --
SELECT Type, COUNT(IMEI) AS 'Number of Users'
FROM Device
GROUP BY Type;
-- B --
SELECT FirstName, LastName
FROM Subscriber
WHERE MDN IN
      (SELECT MDN
      FROM DirNums
      WHERE IMEI IN
            (SELECT IMEI
            FROM Device
            WHERE Type = 'Apple'));
-- C --
SELECT FirstName, LastName, YearReleased
FROM Subscriber JOIN DirNums
      ON Subscriber.MDN = DirNums.MDN
      JOIN Device
      ON DirNums.IMEI = Device.IMEI
WHERE YearReleased < 2018;
-- 3 --
-- a. --
SELECT TOP 3 City, SUM(DataInMB) AS 'Data Usage in City'
FROM Subscriber JOIN MPlan
      ON Subscriber.PlanName = MPlan.PlanName
      JOIN LastMonthUsage
      ON Subscriber.MIN = LastMonthUsage.MIN
GROUP BY City
ORDER BY SUM(DataInMB) DESC;
-- b. --
SELECT DISTINCT City
FROM Subscriber
WHERE PlanName IN
      (SELECT PlanName
      FROM MPlan
      WHERE Data = 'Unlimited');
-- C. --
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SELECT DISTINCT City
FROM Subscriber
WHERE City NOT IN ('Everett', 'Issaquah', 'Kent', 'Olympia',
      'Redmond', 'Seattle', 'Spokane');
-- d. --
SELECT City
FROM Subscriber JOIN MPlan
      ON Subscriber.PlanName = MPlan.PlanName
      JOIN LastMonthUsage
      ON Subscriber.MIN = LastMonthUsage.MIN
WHERE City = 'Bellevue'
GROUP BY City;
-- 4 --
-- A --
SELECT TOP 1 FirstName, LastName
FROM Subscriber JOIN Bill
      ON Subscriber.MIN = Bill.MIN
ORDER BY Total DESC;
-- B --
SELECT TOP 1 PlanName
FROM Subscriber JOIN Bill
      ON Subscriber.MIN = Bill.MIN
ORDER BY Total DESC;
-- 5 --
-- A --
SELECT TOP 1 LEFT(MDN,3) AS 'Area Code', SUM(Minutes) AS 'Total Minutes'
FROM Subscriber JOIN LastMonthUsage
      ON Subscriber.MIN = LastMonthUsage.MIN
GROUP BY LEFT(MDN,3)
ORDER BY SUM(Minutes) DESC;
-- B --
-- a. --
SELECT TOP 1 City
FROM Subscriber JOIN LastMonthUsage
      ON Subscriber.MIN = LastMonthUsage.MIN
WHERE Minutes < 200 OR Minutes > 700
GROUP BY City
ORDER BY SUM(Minutes) ASC;
-- b. --
SELECT TOP 1 City
FROM Subscriber JOIN LastMonthUsage
      ON Subscriber.MIN = LastMonthUsage.MIN
WHERE Minutes < 200 OR Minutes > 700
GROUP BY City
ORDER BY SUM(Minutes) DESC;
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