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/* 1 Provide a meaningful treatment to all values where age is less than 18. */
proc sql;
select * from 1.cb
where age <18;
quit;
/* 2 Identity where the repayment is more than the spend then give them a credit of 2% of their surplus */
/* amount in the next month billing. */
proc sql;
SELECT
    Month(Month) AS monthly, SUM(Amount.spend) AS monthly_spend, limits, SUM(Amount.repayment) AS monthly_repayment, monthly_
   CASE
       WHEN monthly repayment> monthly spend THEN (surplus* 0.02 )
       ELSE 0
   END as penalty_amount
 FROM 1.spend as a
 join 1.repayment as b on a.Costomer = b.Costomer
GROUP BY surplus
quit;
/* -- 3 Monthly spend of each customer */
proc sql;
SELECT costomer, Month(Month) AS monthly, SUM(Amount) AS monthly_spend
FROM 1.spend
GROUP BY costomer, Month(Month) ;
/* -- 4 Monthly repayment of each customer. */
proc sql;
SELECT costomer, Month(Month) AS monthly, SUM(Amount) AS monthly_repayment
FROM 1.repayment
GROUP BY costomer, Month(Month);
quit;
/* --***** 5 Highest paying 10 customers. */
proc sql;
SELECT Costomer, Amount
FROM 1.repayment
group by Costomer, Amount
order by Amount desc
quit;
/* -- 6 People in which segment are spending more money. */
proc sql;
SELECT Segment ,sum(Amount) as spending_money
FROM 1.cb join 1.spend on spend.costomer = cb.customer
group by Segment
order by spending_money desc;
quit;
/* -- 7 Which age group is spending more money? */
proc sql;
SELECT SUM(Amount) AS total_spending ,
       CASE
            WHEN Age < 18 THEN 'Under 18'
           WHEN Age >= 18 AND Age < 30 THEN '18-29'
           WHEN Age >= 30 AND Age < 40 THEN '30-39'
           ELSE '40 and above
         END AS age_group
from 1.cb
join 1.spend on cb.customer = spend.costomer
GROUP BY age_group
ORDER BY total_spending DESC
quit;
/* 8 Which is the most profitable segment? */
proc sql;
SELECT Segment, spend.SUM(Amount) , repayment.SUM(Amount) ,
   CASE
    WHEN SUM(repayment.Amount) > SUM(spend.Amount) AS segment_profit
    ELSE 0 END AS segment_profit
FROM 1.cb
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join 1.spend on cb.customer = spend.costomer
join 1.repayment on cb.customer =repayment.costomer
group by Segment
ORDER BY segment_profit DESC;
quit;
/st -- 9 In which category the customers are spending more money? */
SELECT typess, sum(Amount) as Spending FROM 1.spend
GROUP BY typess
ORDER BY Spending DESC
quit;
/st -- 10 Monthly profit for the bank. st/
proc sql;
SELECT
     Month(Month) AS monthly, SUM(Amount) AS monthly_spend, limits,
    CASE
       WHEN SUM(Amount) > limits THEN (limits* 0.02)
       ELSE 0
   END as bank_profit
 FROM 1.spend as a
  join 1.cb as b on a.costomer = b.customer
GROUP BY Month (Month)
quit;
/* -- 11
          Impose an interest rate of 2.9% for each customer for any due amount */
proc sql;
SELECT
   costomer, Month(Month) AS monthly,SUM(Amount.spend) AS monthly_spend,limits,SUM(Amount.repayment) AS monthly_repayment
   CASE
       WHEN monthly_repayment> monthly_spend THEN (surplus* 2.9)
   END as Interest Amount
 FROM 1.spend as a
  join 1.repayment as b on a.Costomer = b.Costomer
GROUP BY surplus
quit;
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