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-- Check total records
SELECT COUNT(*) FROM customers:
-- Check if data was misplaced while exporting database from python
SELECT * FROM customers:
— Total Number of Customers
SELECT COUNT(DISTINCT "Customer ID") AS Total Customers FROM
customers:
-- Average Transaction Frequency per Month
SELECT AVG("Transaction Frequency (per month)") AS
Avg Transaction Frequency FROM customers;
--Average Monthly Balance
SELECT AVG("Average Monthly Balance") AS Avg Monthly Balance FROM
customers:
-- Most Preferred Channel
SELECT DISTINCT "Preferred Channels", COUNT(*) AS Count
FROM customers
GROUP BY "Preferred Channels"
ORDER BY Count DESC
LIMIT 1:
-- Preferred channels by age range
SELECT "Age Range", "Preferred Channels", COUNT(*) AS Count
FROM customers
GROUP BY "Age Range"
ORDER BY Count DESC:
-- Preferred channels by gender
SELECT "Gender", "Preferred Channels", COUNT(*) AS Count
FROM customers
GROUP BY "Gender"
ORDER BY Count DESC:
-- Preferred channels by region
SELECT "Region", "Preferred Channels", COUNT(*) AS Count
FROM customers
GROUP BY "Region"
ORDER BY Count DESC;
--Account type owned by age range
SELECT "Age Range", "Account Type", COUNT(*) AS Count
```

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FROM customers
GROUP BY "Age Range"
ORDER BY Count DESC;
--Account type owned by gender
SELECT "Gender", "Account Type", COUNT(*) AS Count
FROM customers
GROUP BY "Gender"
ORDER BY Count DESC:
--Account type owned by region
SELECT "Region", "Account Type", COUNT(*) AS Count
FROM customers
GROUP BY "Region"
ORDER BY Count DESC:
-- Transaction frequency by age range
SELECT "Age Range", AVG("Transaction Frequency (per month)") AS
Avg Frequency
FROM customers
GROUP BY "Age Range"
ORDER BY Avg Frequency DESC;
— Transaction frequency by gender
SELECT "Gender", AVG("Transaction Frequency (per month)") AS
Avg Frequency
FROM customers
GROUP BY "Gender"
ORDER BY Avg_Frequency DESC;
— Transaction frequency by region
SELECT "Region", AVG("Transaction Frequency (per month)") AS
Avg Frequency
FROM customers
GROUP BY "Region"
ORDER BY Avg_Frequency DESC;
-- Value Segment by age range
SELECT "Age Range", "Value Segment"
FROM customers
GROUP BY "Age Range";
-- Value Segment by gender
SELECT "Gender", "Value Segment"
FROM customers
```

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GROUP BY "Gender";
-- Value Segment by region
SELECT "Region", "Value Segment"
FROM customers
GROUP BY "Region":
-- Loan status by age range
SELECT "Age Range", "Loan Status"
FROM customers
GROUP BY "Age Range";
-- Loan status by gender
SELECT "Gender", "Loan Status"
FROM customers
GROUP BY "Gender";
-- Loan status by region
SELECT "Region", "Loan Status"
FROM customers
GROUP BY "Region":
-- Check if service satisfaction (feedback score) is linked to
transaction frequency
SELECT "Service Feedback Score", AVG("Transaction Frequency (per
month)") AS Avg Frequency
FROM customers
GROUP BY "Service Feedback Score"
ORDER BY "Service Feedback Score":
-- Rule-Based Recommendations
SELECT "Customer ID",
       "Preferred Channels",
       "Age Range",
       "Loan Status",
       "Value Segment",
       CASE
           WHEN "Preferred Channels" = 'ATM' AND "Value Segment" =
'Low Value' AND "Loan Status" = 'No Loans' THEN 'Basic Savings Account
+ ATM Fee Discounts'
          WHEN "Preferred Channels" = 'Mobile App' AND "Value
Segment" = 'High Value' THEN 'Premium Banking + Investment
Opportunities'
           WHEN "Age Range" = '26-35' AND "Loan Status" = 'Active'
THEN 'Loan Top-Up or Refinancing Offer'
```

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