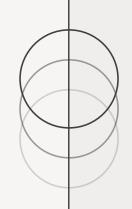
Customer Churn Analysis Using MySQL



Find total number of customers

FINDING TOTAL NUMBER OF CUSTOMERS

SELECT COUNT(DISTINCT CUSTOMER_ID) AS CUSTOMER_COUNT FROM CHURN;

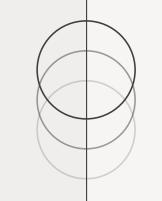
customer_count

4835

How much revenue did Maven lose to churned customers?

SELECT Customer_Status,
COUNT(Customer_ID) AS customer_count,
ROUND((SUM(Total_Revenue) * 100.0) / SUM(SUM(Total_Revenue)) OVER(), 1) AS
Revenue_Percentage
FROM churn
GROUP BY Customer_Status;

CUSTOMER_STATUS	CUSTOMER_COUNT	REVENUE_PERCENTAGE
Churned	1586	19.4
Stayed	3015	80.4
Joined	234	0.2



Typical tenure for churners

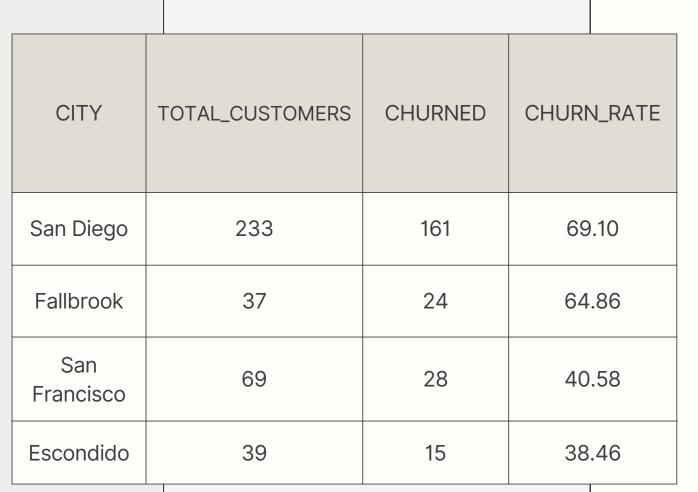
WITH TENURE_COUNTS AS (SELECT CASE WHEN TENURE_IN_MONTHS <= 6 THEN '6 MONTHS' WHEN TENURE_IN_MONTHS <= 12 THEN '1 YEAR' WHEN TENURE_IN_MONTHS <= 24 THEN '2 YEARS' ELSE'> 2 YEARS' END AS TENURE, COUNT(CUSTOMER_ID) AS CHURN_COUNT FROM CHURN WHERE CUSTOMER_STATUS = 'CHURNED' **GROUP BY** CASE WHEN TENURE_IN_MONTHS <= 6 THEN '6 MONTHS' WHEN TENURE_IN_MONTHS <= 12 THEN '1 YEAR' WHEN TENURE_IN_MONTHS <= 24 THEN '2 YEARS' ELSE'> 2 YEARS' **END**

TENURE	CHURN_PERCENTAGE
6 months	39.2
> 2 Years	30.5
2 Years	16.4
1 Year	13.9

SELECT TENURE,
ROUND(CHURN_COUNT * 100.0 / SUM(CHURN_COUNT) OVER(), 1) AS CHURN_PERCENTAGE
FROM TENURE_COUNTS
ORDER BY CHURN_PERCENTAGE DESC;

Which cities have the highest churn rates?

```
SELECT
  city,
  COUNT(Customer_ID) AS Total_Customers,
  COUNT(CASE WHEN Customer_Status = 'Churned' THEN 1 END) AS
Churned,
  ROUND(COUNT(CASE WHEN Customer_Status = 'Churned' THEN 1 END)
* 100.0 / COUNT(Customer_ID), 2) AS Churn_Rate
FROM
  churn
GROUP BY
  city
HAVING
  COUNT(Customer_ID) > 30
  AND COUNT(CASE WHEN Customer_Status = 'Churned' THEN 1 END) > 0
ORDER BY
  Churn_Rate DESC
LIMIT 4;
```



Why did customers leave?

SELECT

CHURN_CATEGORY,

ROUND(SUM(TOTAL_REVENUE),0)AS CHURNED_REV,

CEILING((COUNT(CUSTOMER_ID) * 100.0) / SUM(COUNT(CUSTOMER_ID)) OVER()) AS CHURN_PERCENTAGE

FROM

CHURN

WHERE

CUSTOMER_STATUS = 'CHURNED'

GROUP BY

CHURN_CATEGORY

ORDER BY

CHURN_PERCENTAGE DESC;

CHURN_CATEGORY	CHURNED_REV	CHURN_PERCENTAGE
Competitor	1641968	47
Dissatisfaction	589609	18
Attitude	545336	16
Other	341198	11
Price	404865	11

Why exactly did customers churn?

```
WITH churn_counts AS (
  SELECT
    Churn_Reason,
    Churn_Category,
    COUNT(Customer_ID) AS Churn_Count
  FROM churn
  WHERE Customer_Status = 'Churned'
  GROUP BY Churn_Reason, Churn_Category
SELECT
  Churn_Reason,
  Churn_Category,
  ROUND(Churn_Count * 100.0 / SUM(Churn_Count) OVER(), 1) AS
Churn_Percentage
FROM churn_counts
ORDER BY Churn_Percentage DESC
LIMIT 5;
```

CHURN_REASON	CHURN_CATEGORY	CHURN_PERCENTAGE
Competitor had better devices	Competitor	17.7
Competitor made better offer	Competitor	17.2
Attitude of support person	Attitude	10.7
Don't know	Other	7.4
Competitor offered more data	17.7	6.6

What offers did churners have?

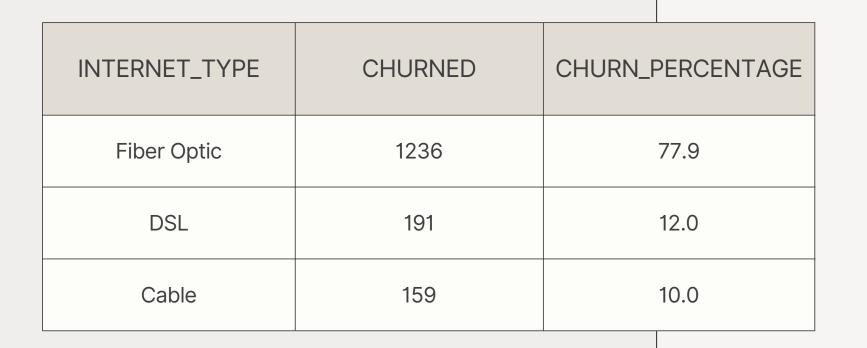
OFFER,
ROUND(COUNT(CUSTOMER_ID) * 100.0 / SUM(COUNT(CUSTOMER_ID)) OVER(), 1) AS CHURNED
FROM
CHURN
WHERE
CUSTOMER_STATUS = 'CHURNED'
GROUP BY
OFFER
ORDER BY

CHURNED DESC;

OFFER	CHURNED
None	57.1
Offer E	20.8
Offer D	9.0
Offer B	5.5
Offer C	5.5
Offer A	2.1

What Internet Type did churners have?

```
SELECT
  Internet_Type,
  COUNT(Customer_ID) AS Churned,
  ROUND(COUNT(Customer_ID) * 100.0 /
SUM(COUNT(Customer_ID)) OVER(), 1) AS Churn_Percentage
FROM
  churn
WHERE
  Customer_Status = 'Churned'
GROUP BY
Internet_Type
ORDER BY
Churned DESC;
```



What Internet Type did 'Competitor' churners have?

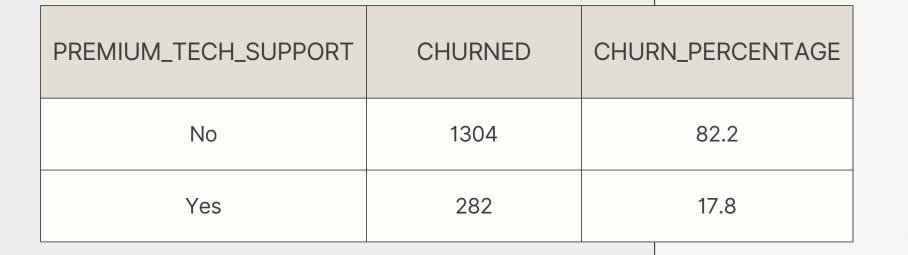
```
SELECT
 INTERNET_TYPE,
 CHURN_CATEGORY,
 ROUND(COUNT(CUSTOMER_ID) * 100.0 / SUM(COUNT(CUSTOMER_ID)) OVER(), 1) AS
CHURN_PERCENTAGE
FROM
 CHURN
WHERE
 CUSTOMER_STATUS = 'CHURNED'
 AND CHURN_CATEGORY = 'COMPETITOR'
GROUP BY
INTERNET_TYPE,
CHURN_CATEGORY
ORDER BY CHURN_PERCENTAGE DESC;
```

INTERNET_TYPE	CHURN_CATEGORY	CHURN_PERCENTAGE
Fiber Optic	Competitor	78.9
Cable	Competitor	10.9
DSL	Competitor	10.2

Did churners have premium tech support?

SELECT Premium_Tech_Support, COUNT(Customer_ID) AS Churned, ROUND(COUNT(Customer_ID) *100.0 / SUM(COUNT(Customer_ID)) OVER(),1) AS Churn_Percentage FROM churn WHERE Customer_Status = 'Churned' GROUP BY Premium_Tech_Support

ORDER BY Churned DESC;



What contract were churners on?

```
SELECT
 CONTRACT,
 COUNT(CUSTOMER_ID) AS CHURNED,
 ROUND(COUNT(CUSTOMER_ID) * 100.0 / SUM(COUNT(CUSTOMER_ID)) OVER(), 1) AS
CHURN_PERCENTAGE
FROM
 CHURN
WHERE
 CUSTOMER_STATUS = 'CHURNED'
GROUP BY
 CONTRACT
ORDER BY
 CHURNED DESC;
```

CONTRACT	CHURNED	CHURN_PERCENTAGE
Month-to-Month	1403	88.5
One Year	143	9.0
Two Year	40	2.5