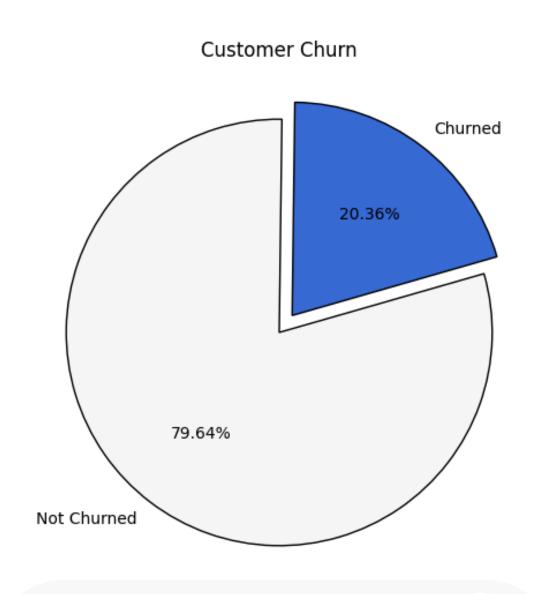
Big Data Management & Analytics

EBICUSTOMER CHURN ANALYSIS

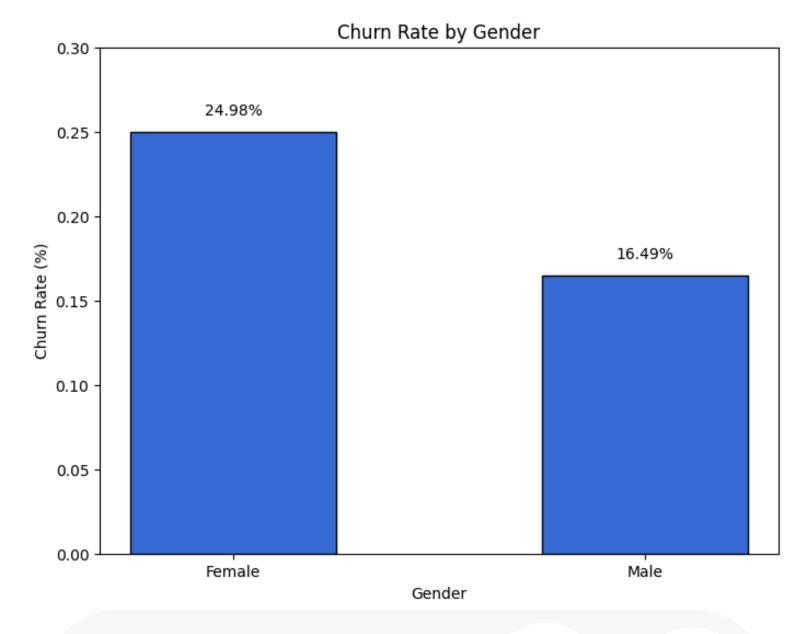
Group 2

Marius van den Assem - 495750ma Yécine Mezghani - 745573ym Felix Masselter - 735890fm Thy Cao - 673415dc Long Lê - 735090al

Insights from Demographics





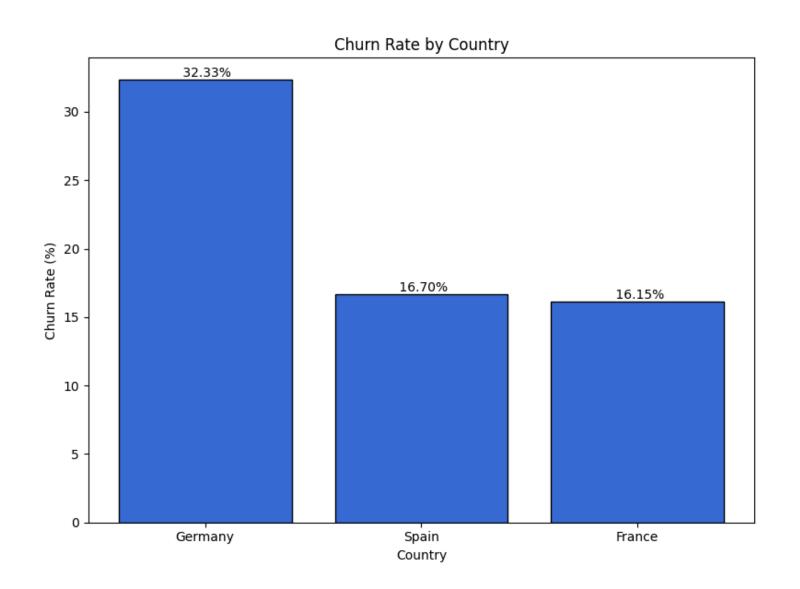


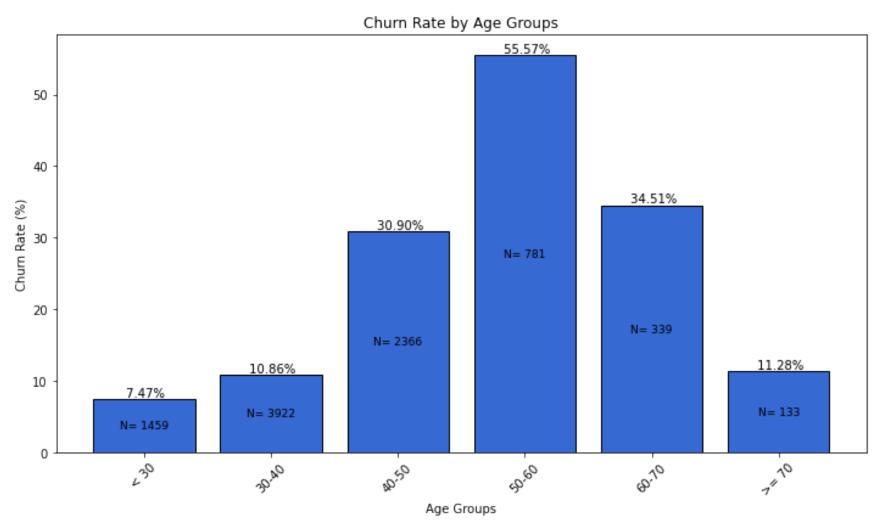
Churn Rate by Gender

F 24.98% 16.

M 16.49%

Insights from Demographics



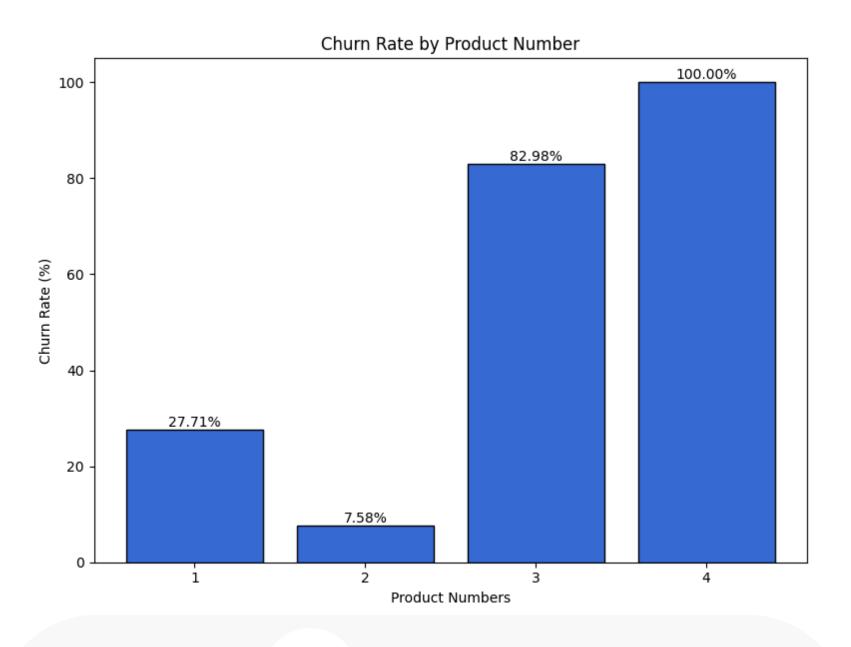


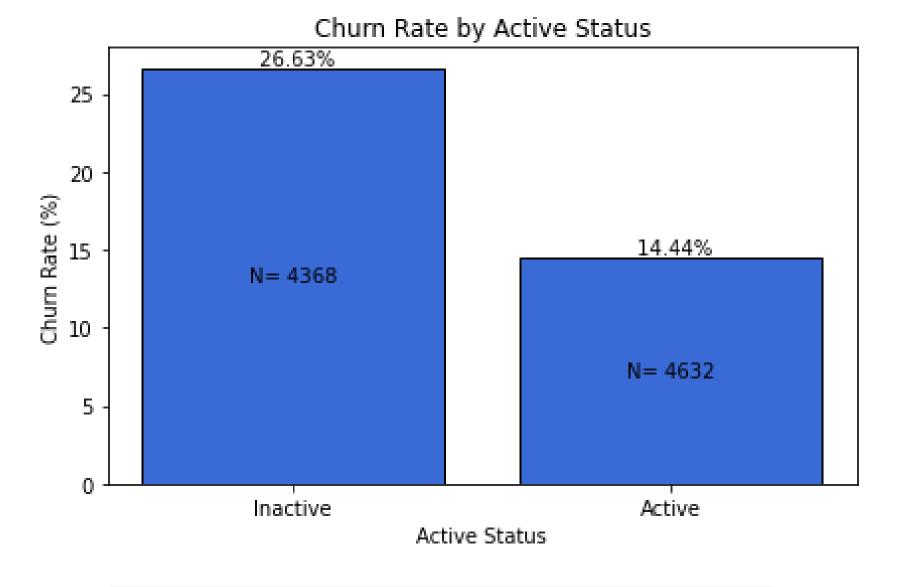
Highest Churn Rate: **Germany 32,33%**

Highest Churn Rate: Age Group 42

6

Interesting Patterns





Customers with 3 or 4

Products Have Significantly High Churn Rates

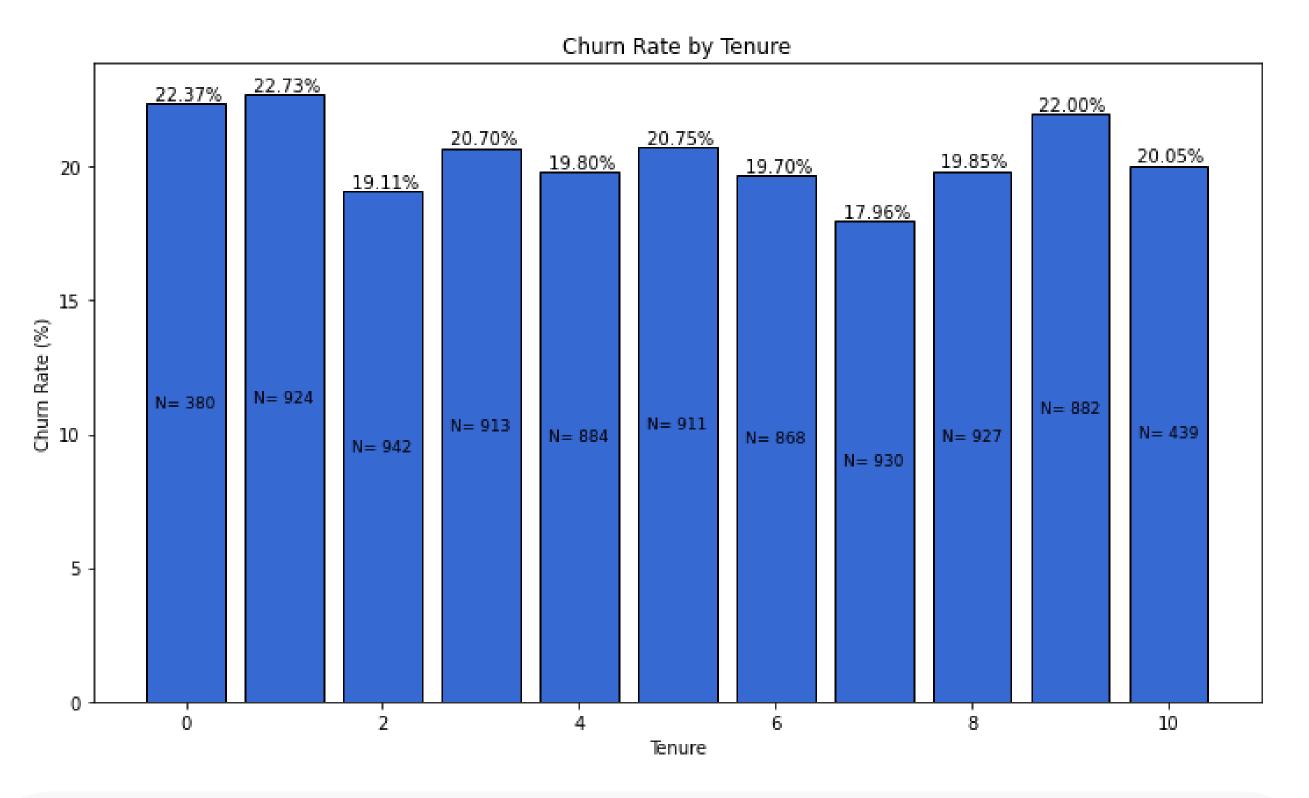
Customers with

Products Have the Lowest Churn Rates Inactive customers have a significantly higher churn rate

14.44% Active

26.63% Inactive

Churn Rate & Tenure



There is No Significant Difference in Churn Rates among the Number of Years a Customer is Having an Account in EBI

Recommendations

1. Age Retaining Strategy

Top 3 Important Features Impacting Churns

- 1. Age
- 2. Number of Products
- 3. Active Status

2. Competitive Bundle Pricing Strategy

3. Active Member Engagement Program

Recommendation 1

Age based Retention Strategy

• Target Group:

Customers aged 40 - 70, with highest churn in 50 - 60 (55.57%)

• Key Actions:

- Develop tailored financial solutions for pre-retirement and retirement phases.
- o Establish a specialized Estate Planning Department for better accommodation.
- Evaluate impact of physical branch closures on this demographic and consider reopening affected locations.

• Rationale:

 Lower digital literacy in this group necessitates physical support and targeted engagement

Recommendation 2

Competitive Bundle Pricing Strategy

• Target Group:

Customers with 3 or 4 products

• Key Actions:

- Conduct competitive price analysis and benchmark against rivals.
- Evaluate price sensitivity at different product combinations.
- Introduce cost-effective bundle discounts for multiple products.

• Rationale:

- Competitors may offer better rates, leading to customer churn.
- Optimized pricing strategies can attract and retain price-sensitive, multi-product users

Recommendation 3

Active Member Engagement Program

• Target Group:

Inactive customers with increased churn propensity

• Key Actions:

- Implement early warning system to identify declining activity patterns before complete disengagement
- Launch targeted re-engagement campaigns with personalized incentives to restore banking activity
- Develop streamlined digital banking experience to reduce barriers to engagement

Rationale:

 Proactive intervention targeting inactive members can prevent complete disengagement and reduce churn risk

Recommendation to Maximize Profit Based on Optimal Target Churn Probability

	€5 Retention Value	€10 Retention Value
Target Probability	15.2%	7.1%
# Target Customers	543 (54.3%)	692 (69.2%)
Expected Profit	€260	€1,176

• Retention Value at €5

Target customers with churn probabilities of
 15.2% or higher will maximize profit

Retention Value at €10

Target customers with churn probabilities of
 7.1% or higher will maximize profit

Rationale

- High overall churn rate of 20% →Lower target churn probabilities to capture potential churn customers
- When retention value increases (compared to our cost), our profit when we retain a customer is higher → Reduce our target probability to aim to capture as many churners as possible.