

ACCOUNT DIVERSITY GRADE MANUAL TESTING

Requirements	Invalid Partitions	Valid Partitions	Valid Partitions	Valid Partitions	Valid Partitions
Account Diversity Grade	null	D	C	B	A
Range Input	TA≤0	TA >0, <5	TA≥5, ≤10	TA>10, ≤20	TA>20
Total Accounts(TA)	null	1 - 4	5 - 10	11 - 20	21-∞
Loan Type Accounts	null	1	2	3	4-∞

In order to prevent or reduce errors and carry out full test coverage, Equivalence Partitioning and Boundary Value Analysis is paramount.

Invalid Partition	Valid Partition	Valid Partition	Valid Partition	Valid Partition
∞-0	1-4	5-10	11-20	21-∞

1. Equivalence Partitioning (Test users)

TEST CASE 1: If users have total account as 0 and loan type count as 0

The system should reject the value and GRADE it as **Null**

TEST CASE 2: If users have total accounts (1-4) e.g 3 accounts and loan type count as 1

The system should accept the value and GRADE it as **D**

For example: if user has 2 Home Loans, 3 unknowns, 2 collections

Total Accounts: 2 Loan Type Count: 1 Account Diversity Grade: D

TEST CASE 3: If users have total accounts (5-10) e.g 8 accounts and loan type count as 2

The system should accept the value and GRADE it as **C**

For example: if user has 5 Heloc, 3 Home Loans, 4 unknowns

Total Accounts: 8 Loan Type Count: 2 Account Diversity Grade: C

TEST CASE 4: If users have accounts (11-20) e.g 15 accounts and loan type count as 3

The system should accept the value and GRADE it as **B**

For example: if user has 6 Credit Cards, 4 Home Loans, 5 Heloc, 2 Collections

Total Account: 15 Loan Type Count: 3 Account Diversity Grade: B

TEST CASE 5: If users have accounts (21-∞) e.g 24 accounts and loan type as 4-∞

The system should accept the value and GRADE it as **A**

For example: if user has 5 Home loans, 5 Heloc, 3 Credit Card, 10 Car Loan, 5 Collections

Total Account: 23 Loan Type Count: 4 Account Diversity Grade: A

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2. Boundary Value Analysis

Invalid Partition	Valid Partition	Valid Partition	Valid Partition	Valid Partition
$\infty-0$	1-4	5-10	11-20	21- ∞
null	D	C	B	A

X1 X2 X3 X4

0	2	4	6	10	12	20	∞
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VALID TEST CASES

Boundary Point X1(1 account)

TEST CASE 1: Lower side of boundary with total accounts 0

The Loan type count is 0

The Account Diversity Grade is **null**

TEST CASE 2: Upper side of boundary with total accounts 2

The Loan type count is 1

The Account Diversity Grade is **D**

Boundary Point X2 (5 accounts)

TEST CASE 3: Lower side of boundary with total accounts 4

The Loan Type Count is 1

The Account Diversity Grade is **D**

TEST CASE 4: Upper side of boundary with total accounts 6

The Loan Type Count is 2

The Account Diversity Grade is **C**

Boundary Point X3 (11 accounts)

TEST CASE 5: Lower side of boundary with total accounts 10

The Loan Type Count is 2

The Account Diversity Grade is **C**

TEST CASE 6: Upper side of boundary with total accounts 12

The Loan Type Count is 3

The Account Diversity Grade is **B**

Boundary Point X4 (21 accounts)

TEST CASE 7: Lower side of boundary with total accounts 20

The Loan Type Count is 3

The Account Diversity Grade is **B**

TEST CASE 8: Upper side of boundary with total accounts >20

The Loan Type Count is 4

The Account Diversity Grade is **A**

INVALID TEST CASE

TEST CASE 9: Analysis with total account as 0

The Loan Type Count is 0

The Account Diversity Grade is **null**