1)

2)

3)

Nodes = 19

Edges = 26

Cyclomatic Complexity = 26 – 19 + 2 = **9**

4)

5)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable | Valid classes | Representative values | Boundary values | Invalid classes | Rep values for invalid |
| Location & age | Rural, age >= 18 & age <= 30 | 24 | 17/18  30/31 | Other location  Age < 17 || Age > 30 | Urban, 24  Rural, 16  Rural, 33 |
| Location & age | Rural, age >30 | 42 | 30/31 | Other location  Age < 31 | Urban, 42  Rural, 21 |
| Location & age | Urban, age >= 18 & age <= 35 | 24 | 17/18  35/36 | Other location  Age < 17 || Age > 35 | Rural, 24  Urban, 17  Urban, 42 |
| Location & age | Urban, age >35 | 42 | 35/36 | Other location  Age < 36 | Rural, 65  Urban, 21 |
| Location & age | Urban||Rural,  Age >= 50 | Urban,60  Rural, 60 | Urban 49/50  Rural 49/50 | Age < 50  Other location | Rural 49  Urban 49  Cat 65 |