**Decision Table #1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Stub** | **Entry** | | | | | | | | | | | |
| Accidents >= 3 | T | T | T | T | T | T | F | F | F | F | F | F |
| Age >= 30 | F | F | F | T | T | T | F | F | F | T | T | T |
| No Experience | T | F | F | T | F | F | T | F | F | T | F | F |
| Experience 1 to 9 years | F | T | F | F | T | F | F | T | F | F | T | F |
| Experience 9 years or more | F | F | T | F | F | T | F | F | T | F | F | T |
|  | | | | | | | | | | | | |
| Eligible for Insurance |  |  |  |  |  |  | X | X | X | X | X | X |
| $2000 rate | X |  |  | X |  |  | X |  |  | X |  |  |
| $1000 rate |  | X |  |  | X |  |  | X |  |  | X |  |
| $500 rate |  |  | X |  |  | X |  |  | X |  |  | X |
| Age Discount (15%) |  |  |  | X | X | X |  |  |  | X | X | X |

DT.1: This is the decision table, with all the possible entries that can be provided to the program.

**Decision Table #2**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Stub** | | | | | | | **Entry** | | | | | |
| Accidents >= 3 | Yes | | | | | | No | | | | | |
| Age | - | | | - | | | >= 30 | | | <= 29 | | |
| Experience | - | - | - | - | - | - | < 1 | >=1 & <=9 | > 9 | < 1 | >=1 & <=9 | > 9 |
|  | | | | | | | | | | | | |
| Insurable |  |  |  |  |  |  | X | X | X | X | X | X |
| $2000 rate |  |  |  |  |  |  | X |  |  | X |  |  |
| $1000 rate |  |  |  |  |  |  |  | X |  |  | X |  |
| $500 rate |  |  |  |  |  |  |  |  | X |  |  | X |
| 15% discount |  |  |  |  |  |  | X | X | X |  |  |  |

DT.2: This is the second decision table that notes the “don’t care” conditions; the applicant will be denied of insurance if they have been involved in two or more accidents.

**Decision Table #3**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Stub** | | **Entry** | | | | | |
| Accidents >= 3 | Yes | No | | | | | |
| Age | - | >= 30 | | | <= 29 | | |
| Experience | - | < 1 | >= 1 & <= 9 | > 9 | < 1 | >= 1 & <= 9 | > 9 |
|  | | | | | | | |
| Insurable |  | X | X | X | X | X | X |
| $2000 rate |  | X |  |  | X |  |  |
| $1000 rate |  |  | X |  |  | X |  |
| $500 rate |  |  |  | X |  |  | X |
| 15% discount |  | X | X | X |  |  |  |

DT.3: This is the decision table after removing the redundancies of the columns where the applicant is involved in 3 or more accidents. A case like that results in automatic denial of coverage, hence the reason why there is only one column for when the accident conditional is met.

**Test Cases**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case ID | Entry | Specific Input | Expected Output |
| TC1 |  |  |  |
| TC2 |  |  |  |
| TC3 |  |  |  |
| TC4 |  |  |  |
| TC5 |  |  |  |
| TC6 |  |  |  |
| TC7 |  |  |  |