**case study 2:** Airline Passenger Discount Policy An airline offers only flights to India and Asia. Under special conditions, a discount is offered on the normal airfare: Test Data/Input Data Passengers older than 18 with destinations in India are offered a discount of 20%, as long as the departure is not on a Monday or Friday. For destinations outside of India, passengers are offered a discount of 25%, if the departure is not on a Monday or Friday. Passengers who stay at least 6 days at their destination receive an additional discount of 10%. Passengers older than 2 but younger than 18 years are offered a discount of 40% for all destinations. Children aged 2 at under can travel for free.

ANSWER 🡪 To create a decision table for the given airline passenger discount policy, we need to consider the different conditions and their corresponding actions. The conditions include passenger age, destination, departure day, and the duration of the stay. The actions include the discount percentage. Here is the decision table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Condition 1: Passenger Age** | **Condition 2: Destination** | **Condition 3: Departure Day** | **Condition 4: Duration of Stay** | **Action: Discount Percentage** |
| Older than 18 | India | Not Monday or Friday | More than 6 days | 20% + 10% = 30% |
| Older than 18 | India | Not Monday or Friday | More than 6 days | 20% |
| Older than 18 | Outside India | Not Monday or Friday | More than 6 days | 25% + 10% = 35% |
| Older than 18 | Outside India | Not Monday or Friday | More than 6 days | 25% |
| 2 to 18 years old | Any | Any | Any | 40% |
| 2 and under | Any | Any | Any | Free |