Redis Failover cases:-

Redis cluster with name mymaster having 2 slaves and 1 master.

Each node is having 1 redis container and 1 sentinal.

Redis container is running on 6379 and sentinel container is running on 26379.

Each redis node is having one persistent volume of 10 gb and all these pv remain in sync.

Test Scenerios:-

Insert one entry in redis login to each node and check the data entry in each node it should be same in each node as it sustain the cluster concept.

1. Make the master down.
2. Make a slave down.
3. Rejoin any node after some disaster.
4. Make both the slaves down.
5. Make whole cluster down.

Once we make the master down than as per quorm concept it will make another slave as master and reload the configuration and data will persist as it was.

Making slave down will not impact the data it will just reload the configuration and no. of slave become 1 in that scenario.

Once due to any disaster any node goes down and during that time some data insertion happens in that scenario once the node will be restored it will contain the same data as its there in rest of the nodes.

Making both the slaves down in that scenario whole cluster concept will not work as quorm concept fails over here but we can fetch the data from available node.

Making the whole cluster down will not fetch any data as we expected the data to be fetched from any backend application.