1. Assume you have all the following 3 dataframes available in session txnDF, modeDF and statusDF

   Following questions need to be coded for.
   1. dataframe to rdd
   2. join transactions with modes and status
   3. get count of success and failure transactions
   4. sort modename basis count of success transactions
   5. candidate for partition
   6. when transaction are at scale

txnDF:

| txnid | amount | date | status | mode |
|-------|--------|------------|--------|------|
| 10001 | 200 | 01-01-2023 | 1 | 10 |
| 10002 | 322 | 01-01-2023 | 2 | 11 |
| 10003 | 300 | 01-01-2023 | 1 | 10 |
| 10004 | 374 | 01-01-2023 | 2 | 12 |
| 10005 | 424 | 01-01-2023 | 1 | 11 |
| 10006 | 474 | 01-01-2023 | 2 | 13 |
| 10007 | 524 | 01-01-2023 | 1 | 13 |
| 10008 | 574 | 02-01-2023 | 2 | 10 |
| 10009 | 624 | 02-01-2023 | 1 | 12 |
| 10010 | 674 | 02-01-2023 | 2 | 10 |
| 10011 | 724 | 02-01-2023 | 1 | 12 |
| 10012 | 774 | 02-01-2023 | 3 | 12 |
| 10013 | 824 | 02-01-2023 | 4 | 12 |
| 10014 | 874 | 02-01-2023 | 4 | 12 |

modeDF :

| modeid | modename |
|--------|----------|
| 10 | CC |
| 11 | DC |
| 12 | UPI |
| 13 | PL |

statusDF :

| statusid | statusname |
|----------|------------|
| 1 | success |
| 2 | failure |
| 3 | pending |
| 4 | NA |