TEST CASES FOR BACKEND ASSIGNMENT

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| **Operation** | **Input Data** | **Expected Output** |
| Database at reasonable location | test\_db  0 | Datastore created in the current working directory |
| Database at specified location | test\_db  1  F:\Freshworks\Database | Datastore created in the specified Location |
| Create data | Key:a  Value: name:Piyush  Ttl:99 | Data created in the file |
| Insert data with same key | Key:a  Value: name:Piyush  Ttl:99  Key:a  Value: name:Piyush  Ttl:99 | Write Fail: Key already present |
| Read data | Key:a | Name:Piyush |
| Read data for an invalid key | Key:b | Read Fail : Key not present |
| Delete data | Key:a | Record should be deleted |
| Delete data for an invalid key | Key:b | Delete Fail: Key not present |
| TTL(Create) | Key:a  Value: name:Piyush  Ttl:1  (after 1 second)  Key:a  Value: name:Kumar  Ttl:99 | Record of a having value Piyush should be deleted.  Record of a having value  Ajith should be inserted. |
| TTL(Read/Delete) | Key:a  Value: name:Piyush  Ttl:1 | Read(a) or Delete(a)  Should result in Failure. |
| Locking a File | Db=Database(“test1”)  Newprocess:  Db=Database(“test1”) | Newprocess should receive an error stating File already locked. |
| Key size | Key:aaaaa………aa | Key length should be less than or equal to 32 chars. |
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