

BDA - Experiment 4

* Aim: To study HBase shell and perform CRUD operations on table.

* Theory:

- HBase is an open source distributed NoSQL database designed to handle large volumes of data and provide real time read & write access.
- It is a part of hadoop ecosystem and is often used for applications that often require high speed.
- Features of HBase are:
 - 1) It is linearly scalable across various nodes as well as modularly scalable.
 - 2) Consistent read and write.
 - 3) Easy to use Java API for client access.
 - 4) Supports Thrift & REST API for non-java frontends which support XML, ~~for~~ protobuf and binary data encoding options.

- Create Table: → create 'employee', 'prsnl-info', 'prof-info'
- Read
 - get 'table-name', 'row-key'
 - scan 'table-name'
- Update → put ('employee', 'prsnl-info: empID', 30)
- Delete → delete ('table-name', 'row-key')

* Conclusion: HBase shell and CRUD operations have been implemented.