Mysqldump --- to export data from mysql, use ful for backup

Open cmd

Change the folder to C:\Program Files\MySQL\MySQL Server 8.0\bin

Cd C:\Program Files\MySQL\MySQL Server 8.0\bin

netstat -a ---- will display port number for all processes

C:\Program Files\MySQL\MySQL Server 8.0\bin>mysqldump -u root -p root123 -h localhost -P 3306 test employee > d:\data\mysqldb.sql

-h , -P table name are optional.

RDBMS VS NOSQL

RDBMS	NOSQL
structured	unstructured
Vertical scaling	Horizontal scaling
Taking backups and making available is costly	Because of replica server, it is highly available
Data is centralized and store on a single machine	Data is store in distributed manner, on multiple shards
Compare to NoSQL it is slower	Because of sharding it faster as compared to RDBMS
Transaction control, rollback, commit, savepoint	Transaction control is not there
Used in all secure application, ex: financial application	Comparatively less secure In media related application

Most of the RDBMs are row oriented

Most of the NOSQL are column oriented, c-store

Unstructured

XML,JSON

<products>

<product>

    <pid>1111</pid>

    <pname> lays</pname>

    <price>1234</price>

</product>

<product>

    <pid>1111</pid>

<pname> marie</pname>

<price>2222</price>

</product>

</products>

JSON---javascript object notation

Mongodb stores data in JSON or BSON

It is designed using c++

One employee document

Emp ={empno:111,

Ename:'Kishori',

Hobbies:['biking', 'reading'],

Dept:{deptno:12, dname:'Training'}

Status:false,

Experience:[{name:'igate', years:5},{name:'capgemini',year:2}]

}

Emp.Hobbies.1-→'reading'

Emp.experience.1.name -→ capgemini

RDBMS	NoSQL--MONGODB
table	collection
Record	document
Field/attribute	Key:value
Primary key	Primary key --→ _id
index	index

Steps to start the server

1. Create a folder d:\data
2. Set path to bin folder
   Add following path into path variable
   C:\Program Files\MongoDB\Server\5.0\bin
   D:\mongodb\setup software with gui\mongodb-database-tools-windows-x86_64-
   100.5.0\mongodb-database-tools-windows-x86_64-100.5.0\bin
3. Open cmd prompt
   C:\system32> mongod --dbpath d:\data

4. To start the client
   Open another cmd prompt
   C:\system32>mongo

5. To import data
   Open new cmd prompt
   C:\system32>mongoimport –db test –collection movie –file
                                   "D:\mongodb\Json Files\movie.json "

   mongoimport –db test –collection restaurent –file
                                   "D:\mongodb\Json Files\samplerestaurent.json "