Sqoop: To write SQL Queries.

Apache Sqoop is a tool designed for efficiently importing bulk data from structured datastores into Hadoop Distributed File System (HDFS) and exporting data back from Hadoop into relational databases.

Key Features:

- Import data from RDBMS → Hadoop (HDFS, Hive, HBase)
- Export data from **Hadoop** → **RDBMS**
- Supports parallel processing → **faster transfer**
- Automatically generates Java classes for data records
- Can transfer **incremental data** (new or updated rows only)

1.Create Database

→ CREATE DATABASE CompanyDB;

2.Create Table

```
→ USE CompanyDB;

→ CREATE TABLE Employees (

EmpID INT PRIMARY KEY AUTO_INCREMENT,

EmpName VARCHAR(50),

Department VARCHAR(30),

Salary DECIMAL(10,2),

JoiningDate DATE

);
```

3.Insert Records

→INSERT INTO Employees (EmpName, Department, Salary, JoiningDate)

VALUES

```
('Rahul Sharma', 'IT', 55000, '2022-06-10'),

('Priya Verma', 'HR', 45000, '2021-09-15'),

('Amit Kumar', 'Finance', 60000, '2020-01-20'),

('Neha Gupta', 'Marketing', 50000, '2023-03-01');
```

```
nysql> desc employees
  Field
                                | Null | Key | Default | Extra
               | Type
  EmpID
                                                            auto_increment
                 varchar(50)
varchar(30)
  EmpName
                                                 NULL
                                   YES
                                                 NULL
  Department
  Salary
                 decimal(10,2)
  JoiningDate | date
                                                 NULL
5 rows in set (0.02 sec)
```

SHOW DATABASES; →1. Show all databases

USE CompanyDB; \rightarrow 2. Use your database

SHOW TABLES; \rightarrow 3. Show all tables in the database

DESC Employees; →4. See the structure of a table (columns, data types, keys)

SELECT * FROM Employees; →5. See all records in a table