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Create database
Create database lpu;
Use database
Use Ipu;
Create table
Create table students (id INT, name STRING);
Show table
Show tables;
Describe students:
Add data into table
Insert into students values (1, "abc");
Select * from students;
create table customer(id INT, fname STRING, Iname STRING, city STRING)
> ROW FORMAT DELIMITED
> FIELDS TERMINATED BY ','
> STORED AS TEXTFILE;
LOAD DATA LOCAL INPATH 'C:/Users/ASUS/Desktop/HADOOPFILES/hive.txt' into table
customer:
Select * from customer;
alter table customer rename to employees;
alter table employees add columns (salary int);
truncate table employees;
select * from employees;
drop table employees;
CREATE TABLE student_data (
id INT,
name STRING,
department STRING,
marks INT)
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ','
STORED AS TEXTFILE:
LOAD DATA LOCAL INPATH "C:\Users\ASUS\Downloads\stu_data.txt" into table
student_data;
-- Sample insert
INSERT INTO TABLE student_data VALUES
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(1, 'Anya', 'CS', 88),
(2, 'Brian', 'Math', 76),
(3, 'Cara', 'CS', 92),
(4, 'Daniel', 'Physics', 65),
(5, 'Eva', 'Math', 81);
CE students with marks > 90
SELECT * FROM student_data
WHERE department = 'CE' AND marks > 90;
Students not in Math department
SELECT * FROM student_data
WHERE department != 'Math';
Students whose names start with 'A'
SELECT * FROM student_data
WHERE name LIKE 'A%';
Students in CS or Physics department
SELECT * FROM student_data
WHERE department IN ('CS', 'Physics');
Students with marks between 70 and 90
SELECT * FROM student_data
WHERE marks BETWEEN 70 AND 90;
# COMPLEX DATA STRUCTURES:
ARRAY
CREATE TABLE student_marks (
name STRING,
marks ARRAY<INT>
);
INSERT INTO student_marks VALUES ('John', array(85, 90, 78));
SELECT name, marks[0] FROM student_marks;
(Retrieves the first element in the array)
CREATE TABLE temperature (
sno INT, place STRING,
temp ARRAY<INT>
ROW FORMAT DELIMITED
FIELDS TERMINATED BY ','
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COLLECTION ITEMS TERMINATED BY ':';
Textfile
1,Delhi,40:45:30
1,Kashmir,32:25:20
1,Punjab,45:48:40
LOAD DATA LOCAL INPATH "C:\Users\ASUS\Downloads\array.txt" into table
temperature;
SELECT * from temperature;
SELECT sno, place, temp[0] AS first_reading FROM temperature;
MAP
CREATE TABLE employee_details (
name STRING,
address MAP<STRING, STRING>
);
INSERT INTO employee_details VALUES ('Alice', map('age', '30', 'city', 'NY'));
SELECT name, address['city'] FROM employee_details;
(Retrieves the value associated with the key 'city')
STRUCT
CREATE TABLE employee_info (
id INT,
personal_info STRUCT<name:STRING, age:INT>
);
INSERT INTO employee_info VALUES (1, named_struct('name','Bob','age',28));
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SELECT personal_info.name, personal_info.age FROM employee_info;