sep22-dbt-day01.md 9/16/2022

MySQL - RDBMS

DBMS vs RDBMS

SQL

MySQL

Installation

- Server = mysqld.exe
 - C:\Program Files\MySQL\MySQL Server 8.0\bin
- Client = mysql.exe
 - C:\Program Files\MySQL\MySQL Server 8.0\bin
- MySQL data directory/folder
 - C:\ProgramData\MySQL\MySQL Server 8.0
- Default user of MySQL = "root" (administrator).
 - Password is given during installation = "manager".
- Set PATH.
 - Windows explorer.
 - This PC (right click) --> Properties --> Advanced System Settings --> Advanced --> Environment Variables
 - User Variables --> PATH --> EDIT
 - Click New --> Add MySQL PATH at the end "C:\Program Files\MySQL\MySQL Server 8.0\bin".
- Open "Command Prompt"
 - o cmd> mysql --version

Getting started

- step 1. Login with "root" user.
 - o cmd> mysql -u root -p
 - Password: manager
- step 2. Create a new user.
 - mysql> CREATE USER sunbeam@localhost IDENTIFIED BY 'sunbeam';
- step 3. Create a new database/schema.
 - mysql> CREATE DATABASE classwork;
 - mysql> SHOW DATABASES;
- step 4. Give all permissions to the new user on the new database.
 - mysql> GRANT ALL PRIVILEGES ON classwork.* TO sunbeam@localhost;
 - mysql> FLUSH PRIVILEGES;

sep22-dbt-day01.md 9/16/2022

- step 5. mysql> EXIT
- step 1. Login with new user and password on MySQL CLI.
 - o cmd> mysql -u sunbeam -p
 - Password: sunbeam
- step 2. Execute queries -- DDL, DML, DQL, ...
 - mysql> SHOW DATABASES;
 - mysql> SELECT USER(), DATABASE();
 - mysql> USE classwork;
 - mysql> SELECT USER(), DATABASE();
 - mysql> SHOW TABLES;
- MySQL screen clear.
 - o mysql>! cls
- CREATE TABLE
 - CREATE TABLE tablename (col1 DATATYPE, col2 DATATYPE, col3 DATATYPE, ...);
- INSERT
 - INSERT INTO tablename VALUES (v1, v2, v3, ...);
 - INSERT INTO tablename VALUES (v1, v2, v3, ...), (v1, v2, v3, ...), (v1, v2, v3, ...), ..;
- SELECT
 - SELECT * FROM tablename;
 - means All columns.

```
SHOW TABLES;

CREATE TABLE stud(id INT, name CHAR(20), marks DOUBLE);

SHOW TABLES;

DESCRIBE stud;

INSERT INTO stud VALUES (1, 'Soham', 98.20);

INSERT INTO stud VALUES (2, 'Sakshi', 97.40);

INSERT INTO stud VALUES (3, 'Prisha', 99.30), (4, 'Madhura', 96.29), (5, 'Om', 97.45);

SELECT * FROM stud;

INSERT INTO stud(name, marks, id) VALUES ('Pratham', 95.39, 6);
INSERT INTO stud(id, name) VALUES (7, 'Vedant');
```

sep22-dbt-day01.md 9/16/2022

```
SELECT * FROM stud;
```

```
CREATE TABLE students(id INT, name CHAR(20), marks DOUBLE);

SHOW TABLES;

SELECT * FROM students;

INSERT INTO students SELECT * FROM stud;

SELECT * FROM students;
```

```
DROP TABLE students;
SHOW TABLES;
```

Prepared by: Nilesh Ghule