```
                    ┌─────────────────┐
                    │     Project     │
                    └─────────────────┘
                   ╱                     ╲
                  ╱                       ╲
        Front-end                          Back-End

                                             database

        HTML,javaScript,CSS                  mysql
        +
        Back end Programming:
        J2SE(Core Java)
```

RDBMS
1. Mysql
2. Oracle
3. SQL Server
4. SQLite
.
.
.
.

SQL

DDL(Data Defintion Language)
    create, alter, drop,truncate

CRUD

DML(Data Manipulation Language)
    insert, update,delete
    C   U   D

DQL: select
    R

DCL (Data Control Language)
    grant, revoke

TCL(Transaction Control Language)
    commt,rollback, savepoint

Aggregate function
sum,avg,max,min,count
operators:
Between, in,like
Clause
where,from,order by,
group by,having
primary key,foreign key

join
corss join
inner join
left outer join
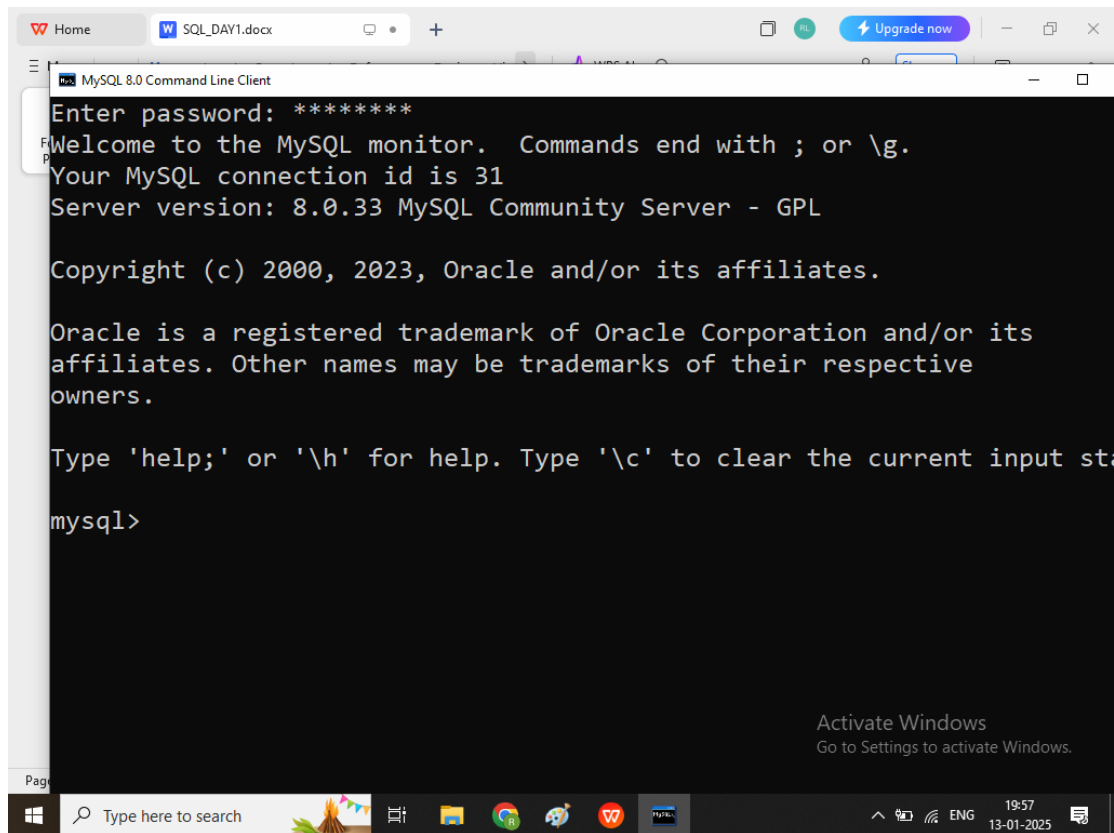right outer join

sub Query / Nested Query

How to open Mysql Command Line Client
Will goto start and type mysql command line client

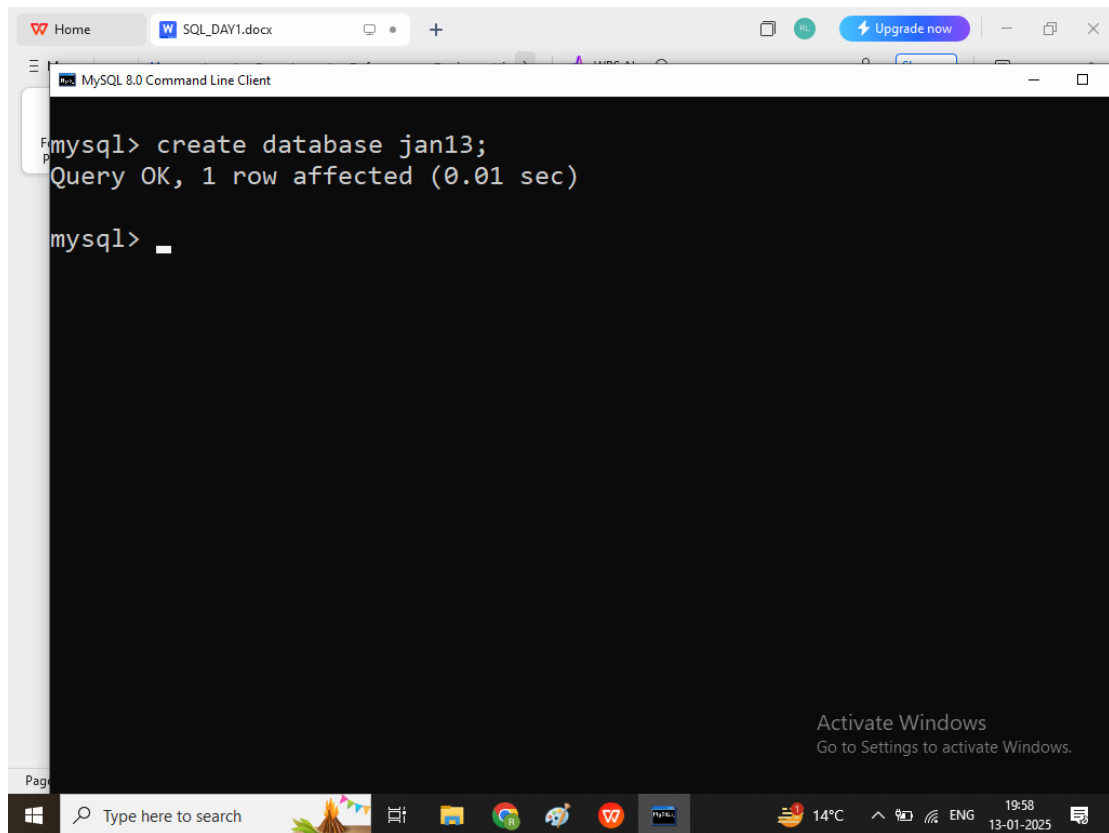# Enter Your Mysql Password then enter

Q1. How to create a database in mysql?

Ans: if we want to create a database then we should go for create command (DDL).

Syntax:

Create database dbname;

Example:

Create database jan13;

```
mysql> create database jan13;
Query OK, 1 row affected (0.01 sec)

mysql> _
```

Q2.How to verify database is created or not?

OR

How to display list of databases in mysql?

Ans:

Use following command to display list of databases

In your mysql

Show databases;

Q3. How to delete database from the mysql?
Ans: if we want to delete database from the mysql then we should go for drop command

Syntax:
Drop database dbname;
Example:
Drop database jan13;

```
60 rows in set (0.02 sec)

mysql> drop database jan13;
Query OK, 0 rows affected (0.01 sec)

mysql>
```

Q4. How to select particular database in mysql?

Use database name;

Use jan13;

Syntax:

```
create table tableName(
column data type constraint,
column data type constaint,
column data type constaint,
column data type constaint
);
```

Example:
```
create table student(
sid int primary key,
name varchar(45),
enroll varchar(45),
per float
);
```

pk

sid	name	enroll	per
int	varchar(45)	Student varchar(45)	float

MySQL 8.0 Command Line Client

```
     -> per float
     -> );
ERROR 1046 (3D000): No database selected
mysql> use jan13;
Database changed
mysql> create table student(
     -> sid int primary key,
     -> name varchar(45),
     -> enroll varchar(45),
     -> per float
     -> );
Query OK, 0 rows affected (0.02 sec)

mysql>
```

Activate Windows
Go to Settings to activate Windows.

Type here to search   14°C   ENG   20:12
                                                      13-01-2025

Q2. How to create table in mysql database?

Syntax:

create table tableName(
column data type constraint,
column data type constaint,
column data type constaint,
column data type constaint
);

Example:
create table student(
sid int primary key,
name varchar(45),
enroll varchar(45),
per float
);

pk int	varchar(45)	Student varchar(45)	float
sid	name	enroll	per

```
    -> per float
    -> );
ERROR 1046 (3D000): No database selected
mysql> use jan13;
Database changed
mysql> create table student(
    -> sid int primary key,
    -> name varchar(45),
    -> enroll varchar(45),
    -> per float
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql>
```
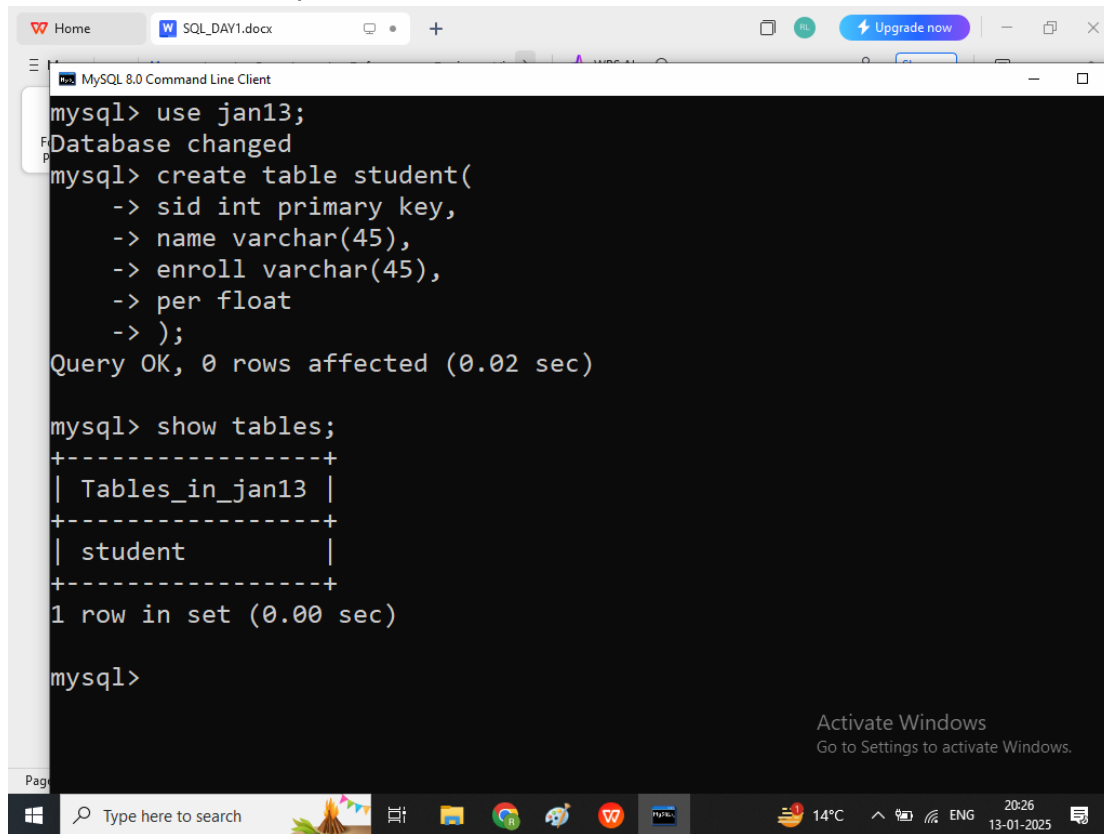
Syntax:

create table tableName(
column data type constraint,
column data type constaint,
column data type constaint,
column data type constaint
);

Example:
create table student(
sid int primary key,
name varchar(45),
enroll varchar(45),
per float
);

pk int	varchar(45)	Student varchar(45)	float
sid	name	enroll	per

Q1. How to display list of tables in mysql?
Show tables;

```
mysql> use jan13;
Database changed
mysql> create table student(
    -> sid int primary key,
    -> name varchar(45),
    -> enroll varchar(45),
    -> per float
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> show tables;
+-----------------+
| Tables_in_jan13 |
+-----------------+
| student         |
+-----------------+
1 row in set (0.00 sec)

mysql>
```