

13th September 2024

① SQL Server management studio - 19 community
Version: 19.1 version.

New Query

Search on (chrome): sql server management
studio. downloaded 19.1. SSMS.

What is data in db?

data - unprocessed. information - data processed.
Systematic way arrangement

database: organised collection of data. easy
access, update, managed.

MySQL and SQL server:

Download Direction.

SQL server management studio:

Download sql server management studio: community edition.

Commands: [MySQL - Xampp]

download xampp.

Q1. How to create a database?

~~create~~ keyword is in capital. → dbname;

CREATE DATABASE cimage;

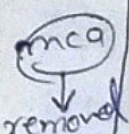
Q2. How to delete a database?

DROP DATABASE cimage;

DELETE, DROP, TRUNCATE (Difference?)

Click on go/ctrl+enter Create.

| | |
|-------------------|-----------------------------------|
| List of Db mca | Create database mca |
| | <input type="button" value="Go"/> |

| | |
|---|-----------------------------------|
|  | Drop database mca. |
| | <input type="button" value="Go"/> |

| Student | |
|---------|------|
| roll | Name |
| 1 | a |
| 2 | b |
| 3 | c |
| 4 | d |

→ will delete the record.

Delete, Drop and Truncate

Delete

Drop

Truncate

It is used to delete a ~~record~~ particular record. eg.

DELETE FROM Students where Table

roll no = 4 ✓

DELETE FROM Students will completely delete.
(iii) Delete from Students where roll no in (1, 3, 5, 7);

It deletes record as well as structure. All not get this permission. Structure + record all is deleted.
Permanent ~~delete~~ delete.

Truncate is used to delete all records at a time.

TRUNCATE TABLE Students;

20-09-24.

1) Open SSMS → click on connect

2) click on :
New Query.

DBms:

create table employee (ID int, name varchar(30))

Control Enter

⇒ insert into students (id, sname) value (1, 'saurav');

⇒ select * from student;

23.09.2024.

RDBMS:

- ① Structure and Unstructured Db.
unstructured db has NoSQL format
- ② BIG Data ✓
MongoDb. ✓
- ③. [Practical]: SQL server.
(i) Open start and search: SQL server management studio: 19. click to open.
(ii) connect + Database engine + windows Authentication.
(iii) click on new query Execute/F5
(iv) SQL Query

1. create database mca1 (click F5)

executed successfully

2. CREATE DATABASE mca2
select command 2 and click on execute.

master

mca1 ✓

use mca1

3. create table students (

ID int primary key, constraints.
sname varchar(30) not null, primary key will not let to duplicate
age int) select query and click id.
on execute.

4. (i) insert into students

(ii) (ID, sname, age) values (1, 'Satyam', 20);
insert into students values
(2, 'Istiyak', 20);

(iii)

(iii) Insert into students (ID, name, age)
values (4, 'Ravi', 21), (5, 'Arshad', 21) •

5. select * from students. (select and execute).

Installing ~~mySQL~~ mssql

27.09.2024

RDBMS.

Database, Create ☒, Delete ☒, Use ☒

Use CImage; To select the database.

Create table tablename (
column1 datatype constraints,
column2 datatype constraints,
:
column n - datatype - constraints);

Insert

(i) Single record ☒

(ii) \rightarrow Insert into tablename (column¹_{name}, column 2 _{name} ... n)
values ("first value", "second value" ... n value);
Specify column

\rightarrow "Insert into tablename values (first value, second value, ... n value);

Constraints, numbers, meaning :

Constraints : Rules on Table.

① Primary Key:

(i) It checks the duplicacy, not allow duplicate value.

(ii) It does not allow the null value.

Data redundancy : data duplicacy.

(iii) Only 1 primary key can be defined in a table.

② Unique: it uniquely identify a column.
It allow use of null value (may or diff. from Primary key).

There may be many column that uniquely identify a row. It allows ~~one~~ null value.

Eg. email, mobile number,

Out of many, we select one as Primary key.

~~Only~~ Only 1 primary key.

Unique + not null \rightarrow Primary Key.

③ Null: not mandatory, It's not mandatory / necessary to fill the required column like address in a student table.

eg. of Primary Key

→ id int PRIMARY KEY.

eg. of ~~Null~~ unique
→ email varchar(30) UNIQUE;

eg. of Null.
→ address varchar(50) NULL,

col.name datatype
(size)
→ constraint,

(iv) NOT NULL.

Like Require. in the HTML form.
It does not allow null value.

→ eg. name varchar(30) NOT NULL;

(v) Default: It is used to define a default country or a city in a table.

eg. city varchar(30) DEFAULT ("Patna");

(vi) Check constraint: It is used to check the value when user enter.

eg age int check (age > 18);

(vii) F.K is the reference of Primary Key in the table.

use create

create table customer(

Id int P.K,

name varchar(30) not null,

address varchar(100) null

city varchar(30) default 'Patna',

email varchar(55) unique.);

certification & Training.