**SQL QUARIES**

**# TABLE =**

|  |  |  |
| --- | --- | --- |
| **NAME** | **ID** | **GENDER** |
| RUPAYAN | 1 | M |
| BAHNI | 2 | F |

**ATTRIBUTES =** “ NAME , ID , GENDER ”

**RECORDS =** “RUPAYAN , 1 , M , BAHNI , 2 , F “

**#Set Up MySql:**

1. Server
2. Workbench
3. Shell

Video link:- <https://youtu.be/mLQpd3hRD7g?si=sBFc2e8hz1ZyoGMR>

**#Run in Terminal and path setup in advance setting:**

1. **Path setup in advance stting:-**

C:\Program Files\MySQL\MySQL Server 8.0\bin

1. Database ‘**college**’ location:

C:\ProgramData\MySQL\MySQL Server 8.0\Data\college

1. **Terminal:**

>mysql --version

>mysql -u root -p (after all the set up from video)

#write password: Rupayan@mbps4 (home)

>show databases; (to show the existing databases)

>create database rupdb; (to create new database)

>select database(); (to show the currently using database)

>use rupdb; (to select database to use )

>drop database rupdb; (to delete database)

database Database: **college**

**…**

Table names Table names

students teachers

|  |  |
| --- | --- |
| name | Dept. |
| Rch. | cse |
| DC | aiml |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| name | id | Dept. | … | … | … |
| Rup | 1223 | cse | … | … | … |
| Bahni | 1227 | ece | … | … | … |

>create database college;

>use college;

>select database();

>show tables;

**Manually using pen & paper:**

Int varchar(255) Int varchar(255) varchar(255) Int

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **s\_no** | **name** | **registration\_number** | **gender** | **depertment** | **backlog** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

For 9997.123 representation -> data type is float(7,3) .

**To Create the table’s attributes:**

>create table students(

s\_no int not null auto\_increment,

name varchar(255) not null,

registration\_number varchar(255) not null ,

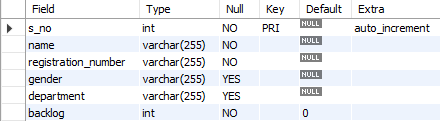
gender varchar(255) not null,

department varchar(255) not null,

backlog int not null default 0,

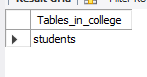
primary key(s\_no)

);



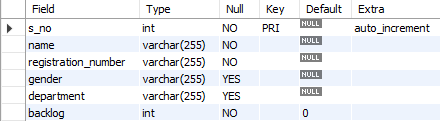
**To see the tables in the database:**

>show tables;



**To see the attributes,constraints,default values of a table:**

>desc students;

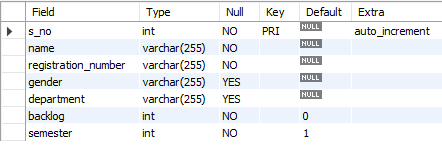


**ALTER TABLE**

**To add a new attribute:**

>alter table students add semester int not null default 1;

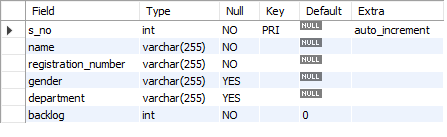
>desc students;



**To delete an existing attribute:**

>alter table students drop semester;

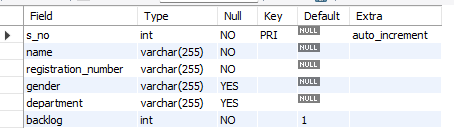
>desc students;



**To modify an attribute:**

>alter table students modify backlog int not null default 1;

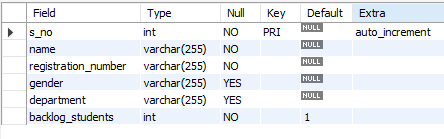
>desc students;



**To change the name of the attribute:**

>alter table students change backlog backlog\_students int not null default 1;

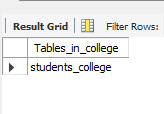
>desc students;



**To change the name of the table:**

>alter table students rename to students\_college;

>show tables;



**RECORDS:**

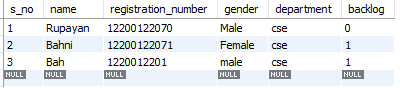
**INSERT**

>INSERT INTO students (name,registration\_number,gender,department) VALUES("Rupayan",12200122070,"Male","cse");

>INSERT INTO students VALUES(2,"Bahni",12200122071,"Female","cse",1);

>INSERT INTO students VALUES(3,"Bah",1220012201,"male","cse",1);

>SELECT \* FROM students;



**FETCH**

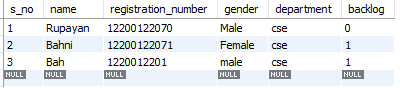
1. **FETCH ALL DATA**

>SELECT

\*

FROM

students;



1. **FETCH SPECIFIC DATA**

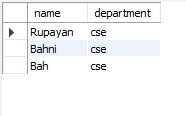
1.

SELECT

name, department

FROM

students;



2.

SELECT

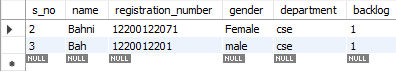
\*

FROM

students

WHERE

backlog > 0;



3.

SELECT

\*

FROM

students

ORDER BY name ASC;

