|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Fields | Datatypes | Null | Key | Default | Check | extra |
| student\_id | Int(11) | No | Primary |  |  | Auto\_Increment |
| name | varchar(50) | N0 |  |  |  | Unique |
| address | varchar(100) | No |  | Birtamode |  |  |
| class\_id | int(11) | No | Foreign |  |  |  |
| section | varchar(50) | Yes |  |  |  |  |
| age | int(11) | No |  | 16 | age>=15 |  |

1. Write SQL Query to create following table(Student).

**Note**: Foreign key reference to (Class) Table.

SQL query:

Database sujan:

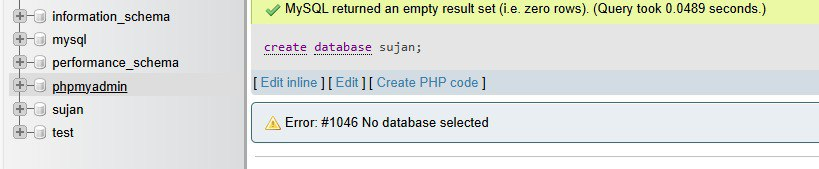


Table class:

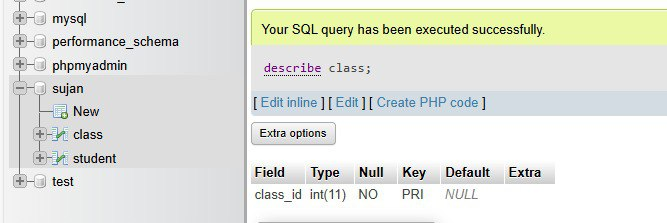
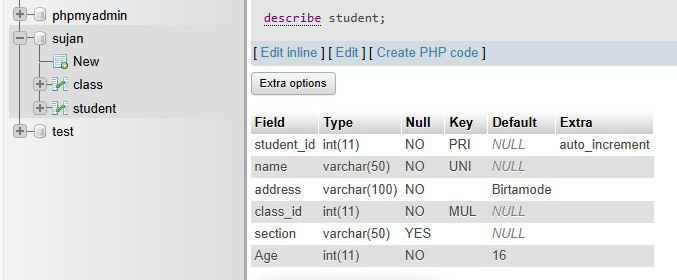
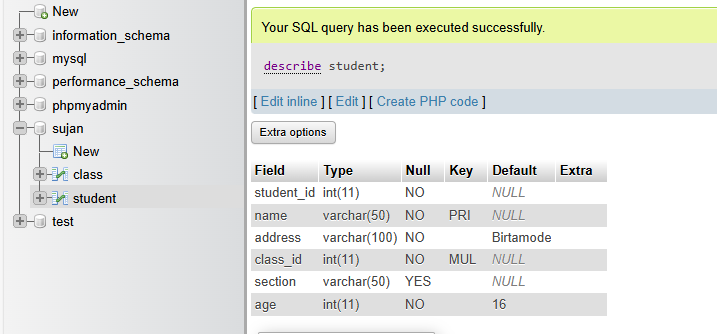


Table student:



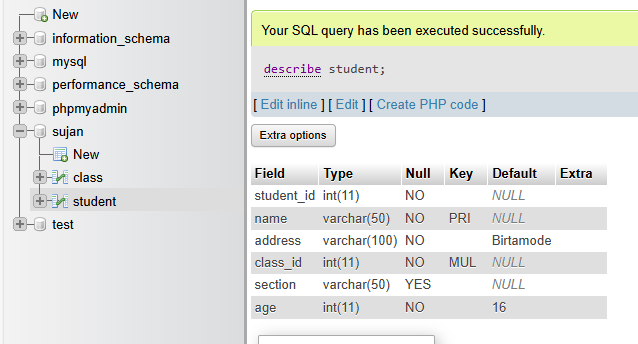
2. Write SQL query to drop primary key from above table.

SQL query:



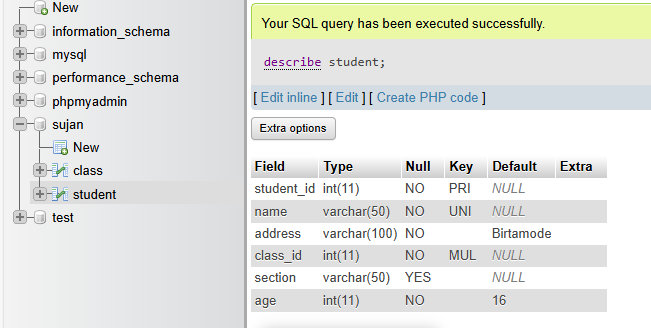
3. Write SQL query to drop foreign key from above table.

SQL query:



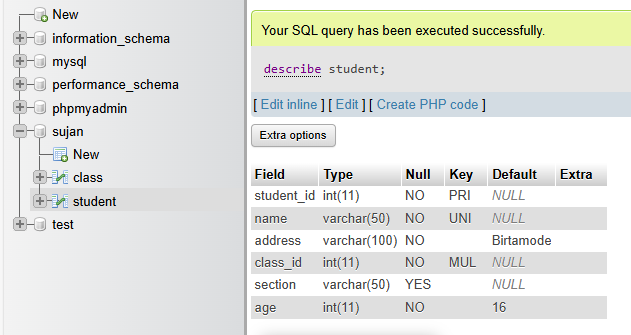
4. Write SQL query to set student id as primary key.

SQL query:



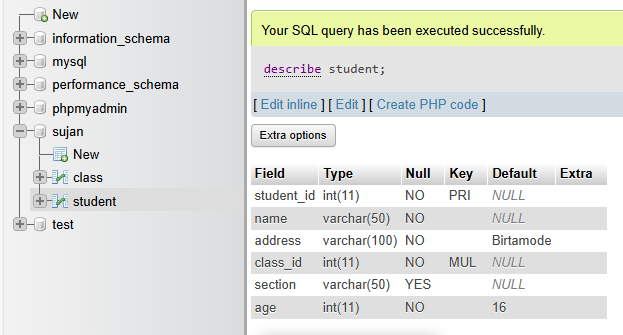
5. Write SQL query to set class id as foreign key.

SQL query:



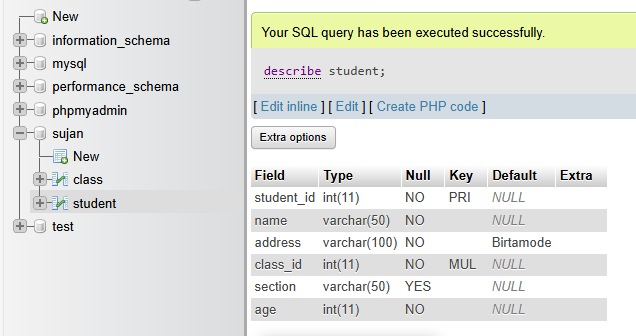
6. Write SQL query to remove unique constraint from name.

SQL query:



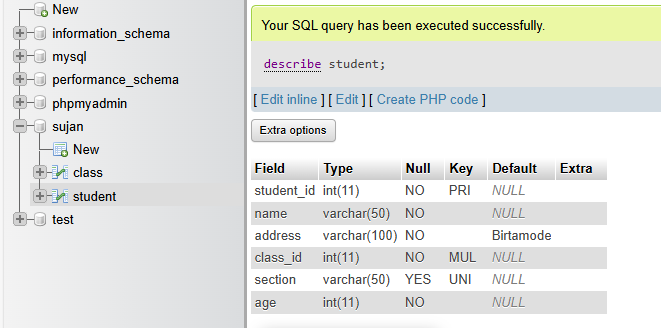
7. Write SQL query to remove default constraint from age.

SQL query:



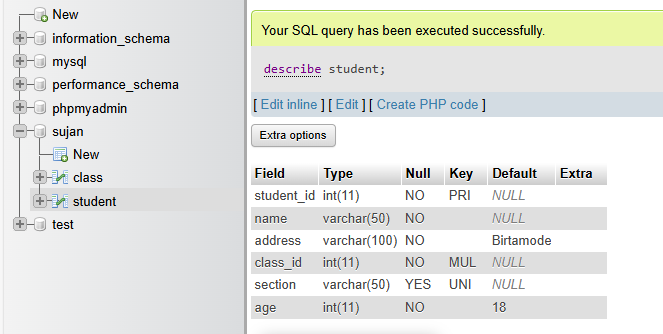
8. Write SQL query to add unique constraint to section.

SQL query:



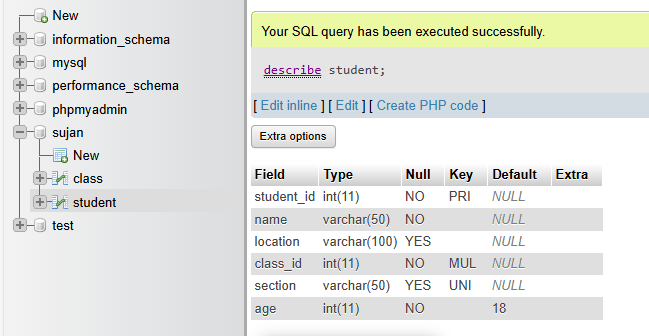
9. Write SQL query to add default value 18 to age.

SQL query:



10. Write SQL query to change column name address to location.

SQL query:

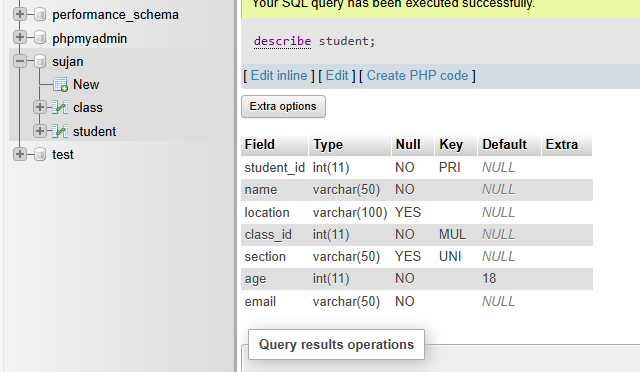


11. Write SQL query to add new column email and make it not null.

SQL query:

alter table student

add email varchar(50) not null;

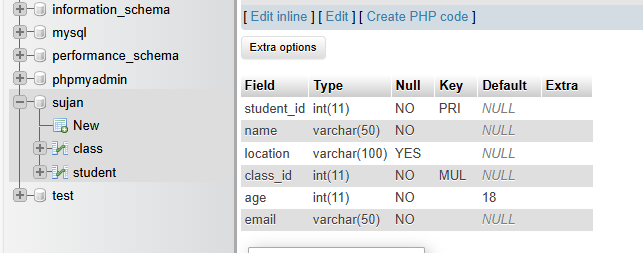


12. Write SQL query to remove column section from above table.

SQL query:

alter table student

drop column section;

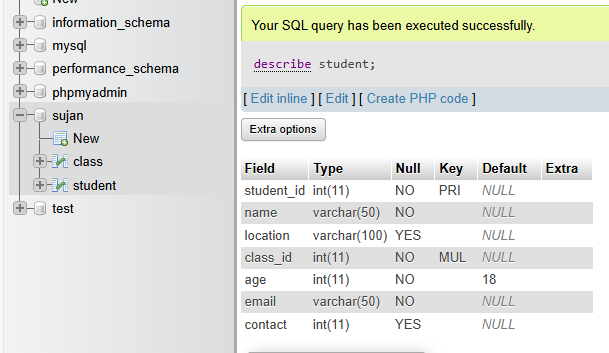


13. Write SQL query to add new column contact and make data type as integer.

SQL query:

[alter](http://localhost:8084/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [table](http://localhost:8084/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/alter-table.html) student

add contact [int](http://localhost:8084/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html)

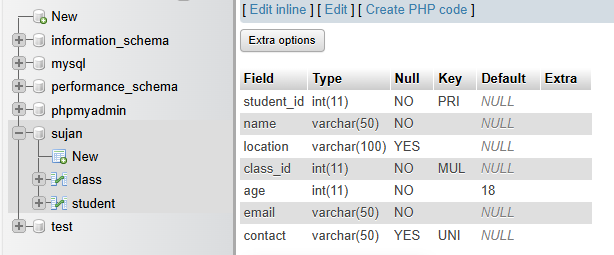


14. Write SQL query to change data type of column contact to varchar and make it unique.

SQL query:

[alter](http://localhost:8084/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [table](http://localhost:8084/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/alter-table.html) student

modify contact [varchar](http://localhost:8084/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/string-types.html)(50) unique

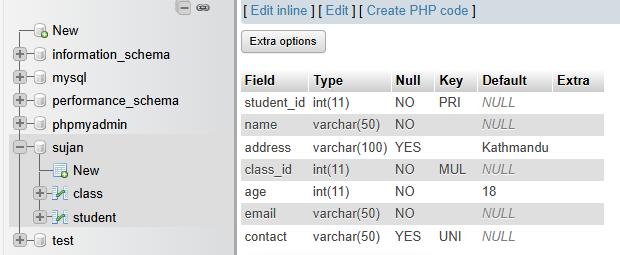


15. Write SQL query to change default value of address to Kathmandu.

SQL query:

[alter](http://localhost:8084/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/alter-table.html) [table](http://localhost:8084/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/alter-table.html) student

alter column location [set](http://localhost:8084/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/set.html) [default](http://localhost:8084/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_default) 'Kathmandu'



16. Insert five set of records in above table.

SQL query:

insert into class

values(1001);

insert into student

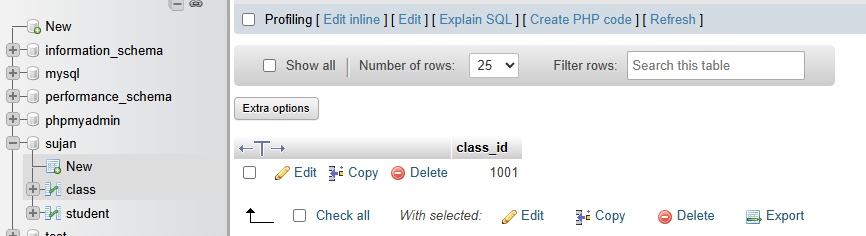
values(1,"aarya","ktm",1001,20,"aaryadhungana@gmail.com","9898989898"),

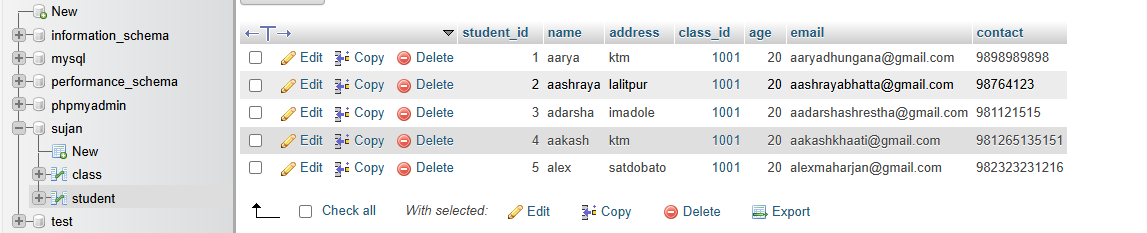
(2,"aashraya","lalitpur",1001,20,"aashrayabhatta@gmail.com","98764123"),

(3,"adarsha","imadole",1001,20,"aadarshashrestha@gmail.com","981121515"),

(4,"aakash","ktm",1001,20,"aakashkhaati@gmail.com","981265135151"),

(5,"alex","satdobato",1001,20,"alexmaharjan@gmail.com","982323231216");





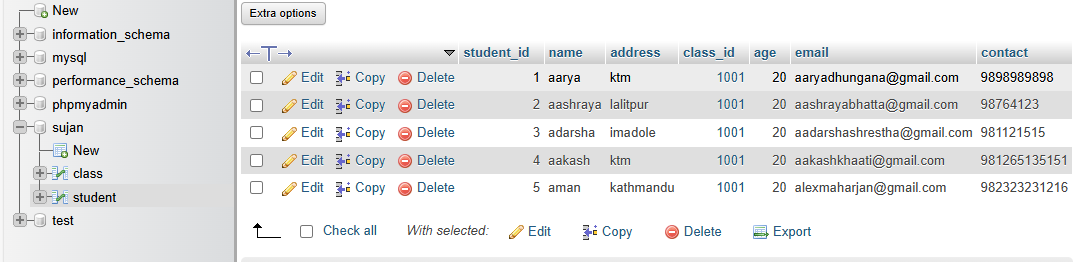
17. Write SQL query to update name and address of student whose student id is 5.

SQL query:

update student

set name="aman", address="kathmandu"

where student\_id=5;

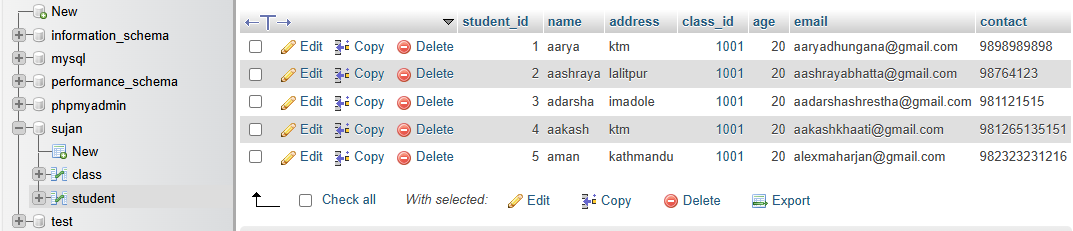


18. Write SQL query to delete all the records of student having age greater than 20.

SQL query:

delete from student

where age>20;



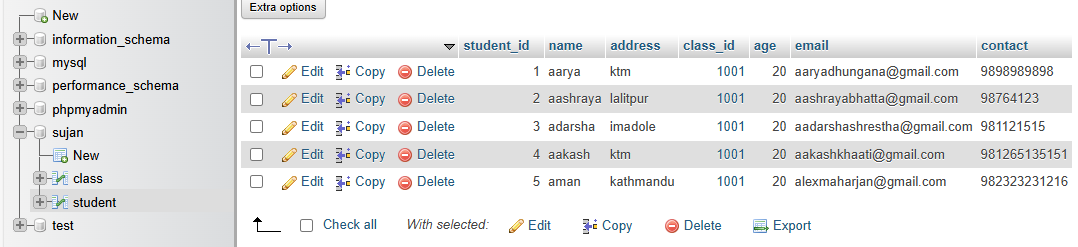
19. Write SQL query to update age of student having address btm.

SQL query:

update student

set age=21

where address=”btm”;

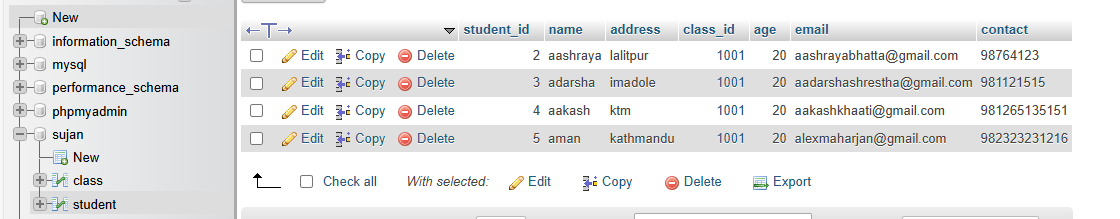


20. Write SQL query to delete all records of student having student id 1.

SQL query:

delete from student

where student\_id=1;



alter table student

add section varchar(50)

insert into class

values(1001),

(5),

(6),

(4)

insert into student

values(1,"Aarya","ktm",1001,20,"aaryadhungana@gmail.com","9898989898","A"),

(2,"Aashraya","lalitpur",1001,20,"aashrayabhatta@gmail.com","98764123","A"),

(3,"Adarsha","imadole",1001,20,"aadarshashrestha@gmail.com","981121515","A"),

(4,"Aakash","ktm",1001,20,"aakashkhaati@gmail.com","981265135151","A"),

(5,"Alex","satdobato",1001,20,"alexmaharjan@gmail.com","982323231216","B"),

(6,"John","Birtamode",5,23,"johnhopkins@gmail.com","9808768112" ,"B"),

(7,"Rahul","Bhaktapur",5,24,"rahul@gmail.com","98087112" ,"B"),

(8,"Sabin","Jawalakhel",5,22,"sabinchettri@gmail.com","981268155" ,"B"),

(9,"sahil","nakhipot",4,21,"sahilkarki@gmail.com","98423423455" ,"B"),

(10,"bikas","kirtipur",4,21,"bikasneupane@gmail.com","9812232425" ,"B")

21. Write SQL query to select all records of student.

SQL query:

Select \* from student

where 1;

22. Write SQL query to select all records of student having student id 3.

SQL query:

Select \* from student

Where student\_id=3;

23. Write SQL query to select name and address of students whose age is greater than 21.

SQL query:

Select name, address

From student

Where age>21;

24. Write SQL query to select student id and name of students whose address in Birtamode.

SQL query:

Select student\_id, name

From student

Where address= 'Birtamode ';

25. Write SQL query to select records of students whose class id is 5 and address is Kathmandu.

SQL query:

Select \* from student

Where class\_id=5;

26. Write SQL query to select maximum age from above table.

SQL query:

Select max(age) as max\_age

FROM student;

27. Write SQL query to select minimum age of students whose address is Birtamode.

SQL query:

Select min(age) as min\_age

From student

Where address= 'Birtamode ';

28. Write SQL query to find total number of students having class id 5 and age greater than 19.

SQL query:

Select count(\*) as total\_std

From student

Where class\_id=5 and age>19;

29. Write SQL query to find average age of students whose class id is 4 and section is B.

SQL query:

Select avg(age) as avg\_std

From student

Where class\_id=4 and section= 'B ';

30. Write SQL query to select students whose address starts with letter ‘B’.

SQL query:

Select \* from student

Where address like 'B% ';