

Django MySQL Connectivity:

settings.py

```
DATABASES={  
    'default':{  
        'ENGINE':'django.db.backends.mysql',  
        'NAME':'schoolapp',  
        'USER':'root',  
        'PASSWORD':",  
        'HOST':'localhost',  
        'PORT':'3306',  
    }  
}
```

Note:

- For host and port no need to give why because mysql database also in the same system.
- If the database is not in our system and the company will be maintained server in another system we will provide host and port.

Open mysql command prompt

Set the path for mysql

path C:\xampp\mysql\bin

mysql -u root -p

enter password:

```
show databases;
```

```
create database schoolapp;
```

Open python command prompt

To check connection is successful or not

Go to project location and run this below command

```
python manage.py shell
```

It opens interactive console shell and type below code

```
from django.db import connection
```

```
cur=connection.cursor()
```

After mysql 8 version error: caching_sha2_password

Note:

- Here we don't give password directly. We have to encrypt that password for security purpose here we are not using root user password.

This is applicable for after mysql 8 version

Open mysql command prompt

Create our own user

```
Create user 'schoolappuser'@'localhost' identified with  
mysql_native_password by 'passwordname';
```

```
grant all school.* to 'schoolapp'@'localhost';
```

- Here schoolapp is the database name
- schoolappuser is the user name

use schoolapp;

show tables;

Open python command prompt:

- Go to project location and run this below command

```
python manage.py shell
```

It will shows any error like to install mysqlclient and install that package based on your python version.

Here I am using python 3.8 I would like to install this package

Before that I have to download this package and placed to project main location of django.

To run this below command and install mysqlclient package

```
pip install mysqlclient-1.4.6-cp38-cp38-win32.whl
```

- It will opens interactive console shell and type the below code to check connection is working or not.

```
from django.db import connection
```

```
cur=connection.cursor()
```

- If the connection is properly working means and it will successfully connected to mysql database.
- To exit the interactive console shell and type ctrl+z

Run makemigrations command

```
python manage.py makemigrations
```

Run migrate command

```
python manage.py migrate
```

Open mysql command prompt

```
show tables;
```

```
desc admissions_student;
```

```
insert into admissions_student values(1,'abc','def',4,'7854695412');
```

To run the server application

```
python manage.py runserver
```

- Go to browser window and type this url <http://127.0.0.1:8000>
- It will shows the view action and choose the view particular action

<http://127.0.0.1:8000>