

Switching Django Application to MySQL DB:

1. Install mysqlclient with pip

```
C:\RISHI\H2K\aprdjango>pip install mysqlclient
Collecting mysqlclient
  Downloading mysqlclient-2.0.3-cp39-cp39-win_amd64.whl (179 kB)
    |████████████████████████████████████████| 179 kB 1.1 MB/s
Installing collected packages: mysqlclient
Successfully installed mysqlclient-2.0.3
```

2. Start MySQL Server and Create new schema for Django Project. (You can use existing schema also)

```
CREATE SCHEMA `django_app` ;
```

3. Make the changes in Settings. Comment existing sqlite3 entry with below entry:

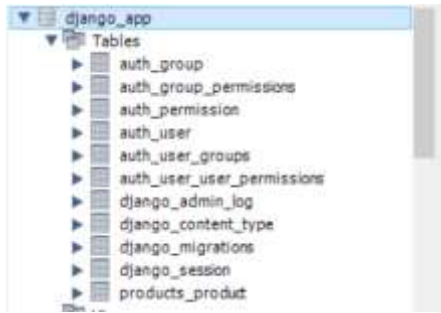
```
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.mysql',
        'NAME': 'django_app',
        'HOST': 'localhost',
        'PORT': '3306',
        'USER': 'root',
        'PASSWORD': 'password',
    }
}
```

- #### 4. Make Migrations & Migrate:

```
C:\RISHI\H2K\aprDjango>python manage.py migrate
No changes detected
```

```
C:\RISHI\H2K\aprdjango>python manage.py migrate
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, products, sessions
Running migrations:
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying admin.0002_logentry_remove_auto_add... OK
  Applying admin.0003_logentry_add_action_flag_choices... OK
  Applying contenttypes.0002_remove_content_type_name... OK
  Applying auth.0002_alter_permission_name_max_length... OK
  Applying auth.0003_alter_user_email_max_length... OK
  Applying auth.0004_alter_user_username_opts... OK
  Applying auth.0005_alter_user_last_login_null... OK
  Applying auth.0006_require_contenttypes_0002... OK
  Applying auth.0007_alter_validators_add_error_messages... OK
  Applying auth.0008_alter_user_username_max_length... OK
  Applying auth.0009_alter_user_last_name_max_length... OK
  Applying auth.0010_alter_group_name_max_length... OK
  Applying auth.0011_update_proxy_permissions... OK
  Applying products.0001_initial... OK
  Applying products.0002_auto_20210416_0615... OK
  Applying sessions.0001_initial... OK
```

- Observe the tables getting created in Schema:



6. Create super user as old one will not work with new Database:

```
C:\RISHI\H2K\aprDjango>python manage.py createsuperuser
Username (leave blank to use 'rishi'): rishi_h2k
Email address: rishi.h2kinfosys@gmail.com
Password:
Password (again):
The password is too similar to the username.
Bypass password validation and create user anyway? [y/N]: y
Superuser created successfully.
```

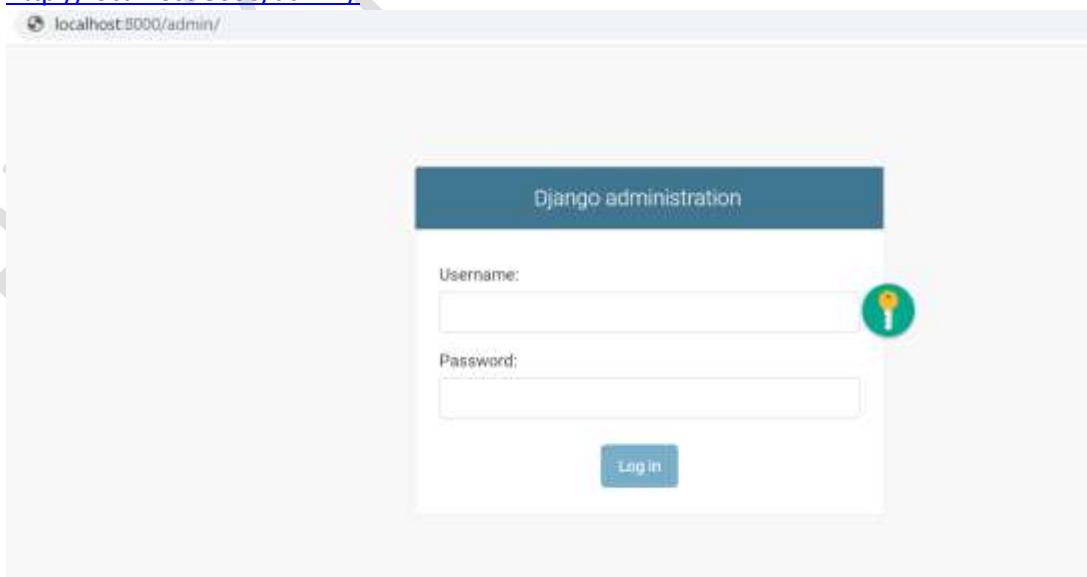
7. Start the Server

```
C:\RISHI\H2K\workspace\aprDjango>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
April 21, 2021 - 18:29:45
Django version 3.0, using settings 'aprDjango.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

8. Now test admin console – all other components of applications can be tested now.

<http://localhost:8000/admin/>



Django administration

Site administration

AUTHENTICATION AND AUTHORIZATION

Groups

+ Add

Change

Users

+ Add

Change

PRODUCTS

Products

+ Add

Change

Recent actions

My actions

None available

9. Add New Product and query the database:

localhost:8000/admin/products/product/1/change/

Django administration

Home / Products / Products / Product object (1)

Change product

Title:	<input type="text" value="Django Course"/>
Price:	<input type="text" value="199.00"/>
Description:	<div>Test This</div>
Summary:	<div>Nice Product</div>

MySQL View:

Navigator

SCHEMAS

Filter objects

bootp

django_app

Tables

auth_group

auth_group_permissions

auth_permission

auth_user

auth_user_groups

auth_user_user_permissions

django_admin_log

django_content_type

django_migrations

django_session

products_product

Columns

Indexes

Administration

Schemas

Information

Schema: django_app

Query 1

Limit to 1000 rows

```
select * from products_product
```

Result Grid

Filter Rows

Edit

Export/Import

id	title	price	description	promotion	summary
1	Django Course	199.00	Test This	1	Nice Product