

Django 1: Introduction to Django Models Models and tables

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PyladiesBCN

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Who haven't heard about Django?

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Who haven't heard about Django?

DO NOT:

DO:

Use Django ORM

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- Work with MySQL



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Who haven't heard about Django?

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Install Django



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Who haven't heard about Django?

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DO NOT:

- Install Django
- Go deep into details of Django inner parts



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- Hack anything



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- Build a model
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- Go deep into details of Django inner parts
- Hack anything
- Break anything (consciounsly)



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A model is a way to structure the information to simulate reality.

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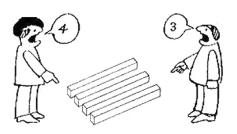
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A model is a way to structure the information to simulate reality.

"We Don't See Things As They Are,



We See Them As We Are." - AN

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All the domain is represented as objects.

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- All the domain is represented as objects.
- Each object is independent



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- All the domain is represented as objects.
- Each object is independent
- Each object has his responsabilities

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- All the domain is represented as objects.
- Each object is independent
- Each object has his responsabilities
- Each object has his functions, attributes

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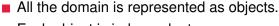
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- Each object is independent
- Each object has his responsabilities
- Each object has his functions, attributes
- Objects interact politey among their acquaintances



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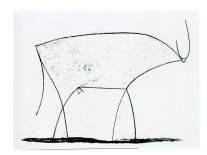
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- Use logic
- Abstraction
- Do not repeat yourself





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- Use logic
- Abstraction
- Do not repeat yourself
- Single responsability





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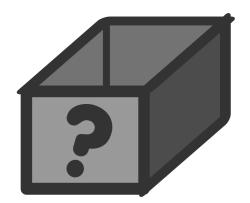
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- Use logic
- Abstraction
- Do not repeat yourself
- Single responsability
- KISS





A database is a black box who stores and manages the information



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A database is a black box who stores and manages the information

How it stores/retrieves the information is not of our concern.

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It is trustworthy

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A database is a black box who stores and manages the information

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We use DB specific language to communicate with a
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We use DB specific language to communicate with a DBMS.

SQL

Diango ORM is a layer of abstraction to release this communication (developer - DBMS) to Django.



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It is trustworthy

We use DB specific language to communicate with a DBMS.

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Django ORM is a layer of abstraction to release this communication (developer - DBMS) to Django. You can invest your time doing something productive!



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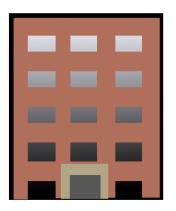
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Creating Django Model Import data to the model Play with the data ■ DBMS is the whole system.





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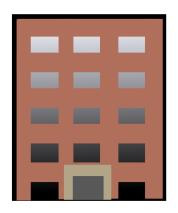
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- DBMS is the whole system.
- DBMS is divided into DATABASES





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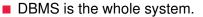
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- DBMS is divided into DATABASES
- Each DATABASE has his TABLES





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DBMS is the whole system.

- DBMS is divided into **DATABASES**
- Each DATABASE has his **TABLES**
- Each USER has specific permissions to access/operate any part of the DBMS





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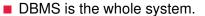
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- DBMS is divided into **DATABASES**
- Each DATABASE has his TABLES
- Each USER has specific permissions to access/operate any part of the DBMS
- **ROOT can do ANYTHING!** Be aware of his usage

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SQL (Standard Query Language) is Standarized by ANSI

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Creating Django Model Import data to the model Play with the data SQL (Standard Query Language) is Standarized by ANSI SQL is not case sensitive Each DBMS implements his own version Same-same, different-different



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Each DBMS implements his own version
Same-same, different-different
Let's start with SQL Syntax!



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■ CREATE DATABASE newDatabaseName



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 - CREATE DATABASE newDatabaseName
- Delete Database



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- CREATE DATABASE newDatabaseName
- Delete Database
 - DROP DATABASE databaseName



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- CREATE DATABASE newDatabaseName
- Delete Database
 - DROP DATABASE databaseName
- **Modify Database**

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- Create Database
 - CREATE DATABASE newDatabaseName
- Delete Database
 - DROP DATABASE databaseName
- Modify Database
 - ALTER DATABASE databaseName specs

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CREATE TABLE newTableName



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- CREATE TABLE newTableName
- Delete Table



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- Create Table
 - CREATE TABLE newTableName
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 - DROP TABLE tableName



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Create Table

- CREATE TABLE newTableName
- Delete Table
 - DROP TABLE tableName
- Modify Table

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Create Table

- CREATE TABLE newTableName
- Delete Table
 - DROP TABLE tableName
 - Modify Table
 - ALTER TABLE tableName specs

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Select Item/s

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Select Item/sSELECT Ite

■ SELECT Items schemaName.tableName



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- Select Item/s
 - SELECT Items schemaName.tableName
- Update Item/s

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- Select Item/s
 - SELECT Items schemaName.tableName
- Update Item/s
 - UPDATE tableName SET col1=something ...



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 - SELECT Items schemaName.tableName
- Update Item/s
 - UPDATE tableName SET col1=something ...
- Insert Item/s



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Select Item/s

- SELECT Items schemaName.tableName
- Update Item/s
 - UPDATE tableName SET col1=something ...
- Insert Item/s
 - INSERT INTO tableName (col1,..., coln) VALUES (11,...,1n),(...),(n1,..., nn)

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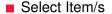
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- SELECT Items schemaName.tableName
- Update Item/s
 - UPDATE tableName SET col1=something ...
 - Insert Item/s
 - INSERT INTO tableName (col1,..., coln) VALUES (11,...,1n),(...),(n1,..., nn)
- Delete Item/s



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- Update Item/s
 - UPDATE tableName SET col1=something ...
- Insert Item/s
 - INSERT INTO tableName (col1,..., coln) VALUES (11,...,1n),(...),(n1,...,nn)
- Delete Item/s

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DELETE FROM tableName



Exercises time!

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- Let's create a Django Model
- Import data to the model
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■ Model related to Employee

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- Model related to Employee
- 6 Model objects



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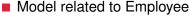
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6 Model objects

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Reference: https://docs.djangoproject.com/en/1.8/ref/models/fields/



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clone repository from github

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clone repository from github

git clone https://github.com/pyladies-bcn/django1.git



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- clone repository from github
 - git clone https://github.com/pyladies-bcn/django1.git
- go to the folder django1/db



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- clone repository from github
 - git clone https://github.com/pyladies-bcn/django1.git
- go to the folder django1/db
- locate employees.sql



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- clone repository from github
 - git clone https://github.com/pyladies-bcn/django1.git
- go to the folder django1/db
- locate employees.sql
- import it to your mysql installation



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Play with the data

- clone repository from github
 - git clone https://github.com/pyladies-bcn/django1.git
- go to the folder django1/db
- locate employees.sql
- import it to your mysql installation
- check there are no errors. Errors are evil!



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After populating our model with registers, we have lots of data.

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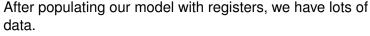
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We are going to look for INTERESTING Employees.

■ Look for the oldest/youngest employee



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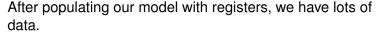
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We are going to look for INTERESTING Employees.

- Look for the oldest/youngest employee
- Look for the employee with the highest/lowest salary



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After populating our model with registers, we have lots of data.

We are going to look for INTERESTING Employees.

- Look for the oldest/youngest employee
- Look for the employee with the highest/lowest salary
- Look for the most veteran/new employee

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After populating our model with registers, we have lots of data.

We are going to look for INTERESTING Employees.

- Look for the oldest/youngest employee
- Look for the employee with the highest/lowest salary
- Look for the most veteran/new employee
- The department with more employees

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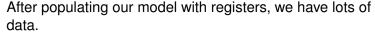
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We are going to look for INTERESTING Employees.

- Look for the oldest/youngest employee
- Look for the employee with the highest/lowest salary
- Look for the most veteran/new employee
- The department with more employees
- The department with the youngest manager



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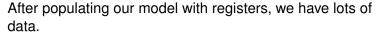
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We are going to look for INTERESTING Employees.

- Look for the oldest/youngest employee
- Look for the employee with the highest/lowest salary
- Look for the most veteran/new employee
- The department with more employees
- The department with the youngest manager
- Anything you can imagine!



Diango 1: Introduction to Diango Models

Thank you:) @PyLadiesBCN

