Московский государственный технический университет им. Н.Э. Баумана

Лабораторная работа №6 по дисциплине “Разработка интернет приложений”

ИСПОЛНИТЕЛЬ:

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Example.py

```
import MySQLdb

db = MySQLdb.connect(
    host='localhost',
    user='dbuser',
    passwd='123',
    db='first_db',
    use_unicode=True,
    charset='utf8'
)

c = db.cursor()

c.execute("INSERT INTO team (name, description) VALUES (%s, %s);", ('Зенит', 'Российский футбольный клуб'))
db.commit()

c.execute("SELECT * FROM team;")
teams = c.fetchall()
for team in teams:
    print(team)

c.execute("DELETE FROM team;")
db.commit()

c.execute("SELECT * FROM team;")
teams = c.fetchall()
print('БД после удаления:')
for team in teams:
    print(team)

c.close()
db.close()
```

example2.py

```
import MySQLdb

class Connection:
    def __init__(self, user, password, db, host='localhost'):
        self.user = user
        self.host = host
        self.password = password
        self.db = db
        self._connection = None

    @property
    def connection(self):
        return self._connection

    def __enter__(self):
        self.connect()
```

```
    def __exit__(self, exc_type, exc_val, exc_tb):
        self.disconnect()

    def connect(self):
        if not self._connection:
            self._connection = MySQLdb.connect(
                host = self.host,
                user = self.user,
                passwd = self.password,
                db = self.db,
                use_unicode=True,
                charset='utf8'
            )

    def disconnect(self):
        if self._connection:
            self._connection.close()

class Team:
    def __init__(self, db_connection, name, description):
        self.db_connection = db_connection.connection
        self.name = name
        self.description = description

    def save(self):
        c = self.db_connection.cursor()
        c.execute("INSERT INTO team (name, description) VALUES (%s, %s);", (self.name,
self.description))
        self.db_connection.commit()
        c.close()

class Teams:
    def __init__(self, db_connection):
        self.db_connection = db_connection.connection

    def select_all(self):
        c = self.db_connection.cursor()
        c.execute("SELECT * FROM team;")
        teams = c.fetchall()
        c.close()
        return teams

    def delete_all(self):
        c = self.db_connection.cursor()
        c.execute("TRUNCATE table team;")
        self.db_connection.commit()
        c.close()


con = Connection('dbuser', '123', 'first_db')
with con:
    team = Team(con, 'ЦСКА', 'Российский футбольный клуб')
    team.save()
    team = Team(con, 'Зенит', 'РФ клуб')
    team.save()
```

```
    teams = Teams(con)
    select_teams = teams.select_all()
    print(select_teams)
    teams.delete_all()
    print('---------------------')
    select_teams = teams.select_all()
    print(select_teams)
```

models.py

```
from django.db import models

class Team(models.Model):
    def __str__(self):
        return self.name
    name = models.CharField(max_length=30)
    description = models.TextField()
```

views.py

```
from django.shortcuts import render
from django.views import View

from DataBaseApp.models import Team


def main_page(request):
    return render(request, 'index.html')


class TeamView(View):
    def get(self, request):
        teams = Team.objects.all()
        return render(request, 'teams.html', {'teams': teams})
```

Список команд:

ЦСКА

Российский футбольный клуб

Зенит

Российский футбольный клуб

Барселона

Испанский футбольный клуб

Спартак

Российский футбольный клуб