

MySQL session

Code to overview database Sakila:

```
use sakila;

show tables;

select * from category; # change the name of table

select first_name, last_name from actor;
```

Code to overview database Sakila:

```
use world;

select * from city; # check if you can see all values

select * from country;

select * from city where ... ; # select all cities in Sweden

insert into city values (...);# add a new city in the table

update city set district= where id=; # check the district of Stockholm
and correct it

select ... from city where ...; # select cityname and population in Sweden

select ... order by...; # order the previous selection by population

select ... order by ... desc; # order in decreasing way

select ... ; # select cities in Sweden with population over 200000

select ...; # select all cities with population over 1 mln and order by
country

select ... FROM city JOIN country ON ...; # create a joint selection with
cityName, population, countryName and continentName

select ... having ... order by ... desc; # filter the previous selection by
population over 1 mln and order in decreasing way

delete ...; # delete the city created by you
```

Code to create power system database:

```
create database if not exists power_system;

use power_system;

drop table if exists generator;
```

```
drop table if exists volt_level;

drop table if exists substation;

create table if not exists substation(rdfid varchar(50) NOT NULL, name
varchar(25), region_id varchar(25), primary key (rdfid));

insert into substation values(...); # insert respective values for cimXML
file for 3-bus power system

...

create table if not exists volt_level(rdfid ..., name ..., substation_id ...,
primary key (...), foreign key (substation_id) REFERENCES
substation(rdfid));

insert into volt_level values(...); # insert respective values for cimXML
file for 3-bus power system

...

create table if not exists generator(rdfid ..., name ..., voltage_id ... ,
primary key (...), foreign key (...) REFERENCES ...);

insert into generator values(...); # insert respective values for cimXML
file for 3-bus power system
```