**Assignment 1**

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**Tasks**

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| Physical schema | |
| What database schemas are in the MySQL DBMS?  Use command “show databases” | information\_schema  mysql  performance\_schema  sakila  sys  world |
| Select to use database “world”  Use command “use world;”  What feedback is provided in the command line window? | Database changed |
| How many tables are in the database?  What are the table names?  Use command “show tables;” | 3 tables  city  country  countrylanguage |
| How many fields are in table countrylanguage;'?  What are the field names?  Use command “describe countrylanguage;” | 4 fields  CountryCode  Language  IsOfficial  Percentage |
| What is the data type of the following fields in table country?   1. Name 2. Continent 3. SurfaceArea 4. IndepYear 5. Capital | 1. char(52) 2. enum 3. float(10, 2) 4. smallint 5. int |
| What are the column names of the fields that are a primary key or foreign key in table countrylanguage?  Use command: “show create table countrylanguage;” | PRIMARY KEY (`CountryCode`,`Language`)  FOREIGN KEY (`CountryCode`) |
| View Level | |
| How many records are in table city?  Use command “select count(\*) from city;” | 4079 records |
| How many records are in table country? | 239 records |
| How many records are in table countrylanguage? | 984 records |
| What is the name and population of the cities in district Florida?  Use command  “select name, population from city where district = “Florida”;” | | Jacksonville | 735167 |  | Miami | 362470 |  | Tampa | 303447 |  | Saint Petersburg | 248232 |  | Hialeah | 226419 |  | Orlando | 185951 |  | Fort Lauderdale | 152397 |  | Tallahassee | 150624 |  | Hollywood | 139357 |  | Pembroke Pines | 137427 |  | Coral Springs | 117549 |  | Cape Coral | 102286 |  | Clearwater | 99936 |  | Miami Beach | 97855 |  | Gainesville | 92291 | |
| What is the name and population of the five largest populations in table city?  Use command  “select name, population from city order by population desc limit 5;” | | Mumbai (Bombay) | 10500000 |  | Seoul | 9981619 |  | São Paulo | 9968485 |  | Shanghai | 9696300 |  | Jakarta | 9604900 | |
| What is the name and population of the 5 largest populations in table city starting at row 21?  Use command  “select name, population from city order by population desc limit 5 offset 20;” | | Rio de Janeiro | 5598953 |  | Tianjin | 5286800 |  | Kinshasa | 5064000 |  | Lahore | 5063499 |  | Santiago de Chile | 4703954 | |
| Physical schema | |
| Select to use database “sakila”  What feedback is provided in the command line window? | Database changed |
| How many tables are in the database sakila?  What are the table names? | 23 tables  actor  actor\_info  address  category  city  country  customer  customer\_list  film  film\_actor  film\_category  film\_list  film\_text  inventory  language  nicer\_but\_slower\_film\_list  payment  rental  sales\_by\_film\_category  sales\_by\_store  staff  staff\_list  store |
| How many fields are in table inventory?  What are the field names? | 4 fields  inventory\_id  film\_id  store\_id| |  last\_update |
| What is the data type of the following fields in table city?   1. city\_id 2. city 3. country\_id 4. last\_update | 1. smallint unsigned 2. varchar(50) 3. smallint unsigned 4. timestamp |
| What are the column names of the fields that are a primary key or foreign key in table film? | PRIMARY KEY (`film\_id`)  FOREIGN KEY (`language\_id`)  FOREIGN KEY (`original\_language\_id`) |
| View Level | |
| How many records are in table customer? | 599 records |
| How many records are in table payment? | 16049 records |
| How many records are in table country? | 109 records |
| What is the name, city and country of each person in the staff\_list table? | | Mike Hillyer | Lethbridge | Canada |  | Jon Stephens | Woodridge | Australia | |
| What is the actor\_id for actor Angela Witherspoon? | 144 |
| How many films in table film\_actor is actor Angela Witherspoon in? | 35 |