**Sakila and World Database** **Exercises**

**Red questions have incomplete or incorrect answers.**

**Sakila Database Exercises**

1. Select all Actors from the table.

USE sakila;

SELECT \* FROM sakila.actor;

2. Find the actor with the first name “John”.

USE sakila;

SELECT \* FROM sakila.actor WHERE first\_name = 'John';

3. Find all actors with the surname “Neeson”.

USE sakila;

SELECT \* FROM sakila.actor WHERE last\_name = 'Neeson';

4. Find all actors with Id numbers divisible by 10.

USE sakila;

SELECT \* FROM sakila.actor;

5. What is the description of the movie with ID of 100?

USE sakila;

SELECT description FROM sakila.film WHERE film\_id = 100;

6. Find every movie with a rating of “R”. Answer:

USE sakila;

SELECT title FROM sakila.film WHERE rating = 'R';

7. Find every movie except those with a rating of “R”.

USE sakila;

SELECT title FROM sakila.film WHERE rating != 'R';

8. Find all movies with Deleted Scenes.

USE sakila;

SELECT title FROM sakila.film WHERE special\_features LIKE '%deleted scenes%';

9. Which last names are not repeated?

USE sakila;

Select last\_name FROM sakila.actor

GROUP BY last\_name HAVING COUNT(\*) = 1;

10. Which last names appear more than once?

USE sakila;

Select last\_name, COUNT(\*) FROM sakila.actor

GROUP BY last\_name HAVING COUNT(\*) > 1;

11) Which actor has appeared in the most films?

JOIN?

12) Is ‘Academy Dinosaur’ available for rent from Store 1?

JOIN?

13. What is that average running time of all the films in the database?

USE sakila;

SELECT AVG(length) FROM sakila.film;

14) What is the average running time of films by category?

15) How many movies have Robots in them?

16)Find the movie(s) with the longest runtime. Answer = 10 x 185mins.

USE sakila;

SELECT length FROM sakila.film ORDER BY length DESC;

Then

USE sakila;

SELECT \* FROM sakila.film WHERE length = 185;

17. Count how many movies were released in 2010. Answer = Zero.

USE sakila;

SELECT \* FROM sakila.film WHERE release\_year = 2010;

18. Return full name of the staff member – in a column named full\_name – with the ID of 1.

CREATE VIEW full\_name

AS

SELECT first\_name, last\_name

FROM sakila.staff

WHERE staff\_id=1;

USE sakila;

SELECT \* FROM full\_name;

19. Retrieve all movies that Fred Costner has appeared in.

SELECT a.first\_name, a.last\_name, f.title

FROM sakila.actor a

JOIN sakila.film\_actor fa

ON a.actor\_id = fa.actor\_id

JOIN sakila.film f

ON f.film\_id = fa.film\_id;

USE sakila;

SELECT actor\_id FROM sakila.actor WHERE first\_name = 'Fred' AND last\_name = 'Costner';

SELECT actor.first\_name, actor.last\_name, film.title

FROM sakila.film.actor filmactor

INNER JOIN sakila.film film ON filmactor.film\_id=film.film\_id;

INNER JOIN sakila.actor actor ON filmactor.actor\_id=a.actor\_id; ?

20)Find out which location has the most copies of BUCKET BROTHERHOOD.

USE sakila;

SELECT inventory\_id, store\_id FROM sakila.inventory

WHERE film\_id = (

SELECT film\_id

FROM sakila.film

WHERE title = 'BUCKET BROTHERHOOD'

);

21. How many distinct countries are there?

USE sakila;

SELECT DISTINCT country FROM sakila.country;

22. What are the names of all the languages in the database (sorted alphabetically)? Answer

USE sakila;

SELECT name FROM sakila.language ORDER BY name ASC;

23. Return the full names (first and last) of actors with “son” in their last name, ordered by their first name.

USE sakila;

SELECT first\_name, last\_name FROM sakila.actor ORDER BY first\_name ASC

WHERE last\_name = (

SELECT last\_name

FROM sakila.actor

WHERE last\_name LIKE '%son%'

);

**World Database Exercises**  
  
1)Using COUNT, get the number of cities in the USA.

2)Find out what the population and average life expectancy for people in Argentina (ARG) is.

3)Using IS NOT NULL, ORDER BY, LIMIT, what country has the highest life expectancy?

4)Using JOIN … ON, what is the capital of Spain (ESP)?

5)Using JOIN … ON, list all the languages spoken in the 'Southeast Asia' region.

6)Select 25 cities around the world that start with the letter 'F' in a single SQL query.

7)Using COUNT, get the number of cities in China.

8)Using IS NOT NULL, ORDER BY, & LIMIT, what country has the lowest population?

9)Using aggregation, return the number of countries in the database.

10)What are the top ten largest countries by population?

11)List the top five largest cities in Japan.

12)List the names and country codes of every country which has Elizabeth II as its Head of State.

13)List the top ten countries which have the smallest population-to-area ratio.

14. List every unique world language, according to the World database.

USE sakila;

SELECT DISTINCT Language FROM world.countrylanguage

15)What are the top 10 richest countries by GDP?

16. What are the top 10 largest countries by surface area?

USE sakila;

SELECT TOP(10) Name, SurfaceArea FROM world.country

ORDER BY SurfaceArea DESC;

17)List every country where over 50% of its population can speak French.

18. Which country has the worst life expectancy?

USE sakila;

SELECT Name, LifeExpectancy FROM world.country

WHERE LifeExpectancy = (

SELECT MIN(LifeExpectancy) FROM world.country

);

19)What is the most common government form?

20)How many countries have gained independence since records began?