**SAKILA exercise book sample solutions**

**1. Select all Actors from the table.**

**SELECT \* FROM actor;**

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

SELECT \* FROM actor WHERE first\_name="John";

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

SELECT \* FROM actor WHERE last\_name="Neeson";

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

SELECT \* FROM actor WHERE actor\_id%10=0;

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

SELECT film\_id, description FROM film WHERE film\_id=100;

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

SELECT title, rating FROM film WHERE rating="R";

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

SELECT title, rating FROM film WHERE rating!="R";

**8.Find the 10 shortest movies.**

SELECT title, length FROM film ORDER BY length ASC LIMIT 10;

**# 9.Now return only the movie titles.**

SELECT title FROM film;

**10.Find all movies with Deleted Scenes.**

SELECT \* FROM film WHERE special\_features LIKE '%Deleted Scenes%';

**11.Which last names are not repeated?**

SELECT last\_name FROM sakila.actor GROUP BY last\_name HAVING COUNT(\*)=1;

**12.Which last names appear more than once?**

SELECT last\_name FROM sakila.actor GROUP BY last\_name HAVING COUNT(\*)>1;

**13.Which actor has appeared in the most films?**

SELECT f.actor\_id, a.first\_name, a.last\_name, COUNT(f.actor\_id)

FROM film\_actor f JOIN actor a ON f.actor\_id=a.actor\_id

GROUP BY f.actor\_id ORDER BY COUNT(f.actor\_id) DESC LIMIT 1;

**14.Is ‘Academy Dinosaur’ available for rent from Store 1?**

SELECT \* FROM rental

WHERE inventory\_id <= (SELECT MAX(inventory\_id) from inventory

WHERE film\_id =(SELECT film\_id FROM film WHERE title="Academy Dinosaur")

AND store\_id = 1);

**15.When is ‘Academy Dinosaur’ due?**

SELECT return\_date FROM rental

WHERE inventory\_id <= (SELECT MAX(inventory\_id) from inventory

WHERE film\_id =(SELECT film\_id FROM film WHERE title="Academy Dinosaur")

AND store\_id = 1);

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

SELECT AVG(length) FROM film;

**17.What is the average running time of films by category?**

SELECT category, AVG(length) FROM film\_list GROUP BY category;

**18.How many movies have Robots in them?**

SELECT title, description FROM film WHERE description LIKE '%robot%';

**19.Find the movie(s) with the longest runtime.**

SELECT title, length FROM film WHERE length=(SELECT MAX(length) FROM film);

**20.Count how many movies were released in 2010.**

SELECT COUNT(release\_year) FROM film WHERE release\_year=2010;

**21.Find the titles of all horror movies.**

SELECT title, category FROM film\_list WHERE category="Horror";

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

SELECT CONCAT(first\_name, ' ', last\_name) AS full\_name FROM staff WHERE staff\_id=1;

**23.Retrieve all movies that Fred Costner has appeared in.**

SELECT title, actors FROM film\_list WHERE actors LIKE '%Fred Costner%';

**24.Find out which location has the most copies of BUCKET BROTHERHOOD.**

SELECT film\_id, store\_id, COUNT(store\_id) FROM inventory WHERE film\_id=(SELECT film\_id FROM film WHERE title="BUCKET BROTHERHOOD") GROUP BY store\_id;

**25.How many distinct countries are there?**

SELECT COUNT(DISTINCT country) FROM country;

**26.What are the names of all the languages in the database (sorted alphabetically)?**

SELECT DISTINCT name FROM language ORDER BY name;

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

SELECT CONCAT(first\_name, ' ', last\_name) AS full\_name FROM actor WHERE last\_name LIKE '%son%' ORDER BY first\_name;

**28.Create a list of categories and the number of films for each category.**

SELECT category, COUNT(title) FROM film\_list GROUP BY category ORDER BY category;

**29.Create a list of actors and the number of movies by each actor.**

SELECT a.first\_name, a.last\_name, f.actor\_id, COUNT(f.film\_id) FROM film\_actor f JOIN actor a ON f.actor\_id=a.actor\_id GROUP BY actor\_id ORDER BY actor\_id;