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**Storage layer -Assignment Day 3**

**1.Select the American directors ordered from oldest to youngest.**

-> select \* from directors where nationality='American' order by date\_of\_birth asc;

**2.Return the sistinct nationalities from the directors table.**

-> select distinct nationality from directors;

**3.Return the first names, last names and date of births of the 10 youngest female actors.**

-> select first\_name,last\_name,date\_of\_birth from actors where Gender='F' order by date\_of\_birth desc limit 10;

**4.Return the top 3 movies with the highest international takings.**

->select movie\_id,international\_takings from movie\_revenues order by international\_takings desc limit 3;

**5.Concatenate the first and last names of the directors spearated by a space, and call this new column full\_name**.

-> select concat(first\_name,' ', last\_name) as full\_name from directors;

**6.Return the actors with missing first\_names or data\_of\_births.**

-> SELECT first\_name, date\_of\_birth FROM actors WHERE first\_name IS NULL OR date\_of\_birth IS NULL;

**7.Count the number of actors born after the 1st January 1970.**

-> select count(\*) from actors where date\_of\_birth > '1970-01-01';

**8.What was the highest and lowest domestic takings for a movie.**

-> select MAX(domestic\_takings), min(domestic\_takings) from movie\_revenues;

**9.What is the sum total movie length for movies rated 15.**

-> SELECT SUM(movie\_length) FROM movies WHERE age\_certificate='15';

**10.How many Japanese directors are in the directors table.**

-> select count(\*) from directors where nationality='Japanese';

**11.What is the average movie length for chinese movies.**

-> select AVG(movie\_length) from movies where movie\_lang='Chinese';

**12.How many directors are there per nationality?**

-> select count(distinct nationality) from directors;

**13.What is the sum total movie\_length for each age certificate and movie language combination?**

-> SELECT SUM(movie\_length), age\_certificate, movie\_lang FROM movies GROUP BY age\_certificate, movie\_Lang;

**14.Return the movie languages which have a sum total movie length of over 500 minutes.**

-> SELECT movie\_lang FROM movies GROUP BY movie\_lang HAVING SUM(movie\_length) > 500;

**15.Select the directors first and last names, the movie names, and release dates for all Chinese, Korean, and Japanese movies**.

-> SELECT first\_name, last\_name, movie\_name, release\_date FROM movies

NATURAL JOIN directors WHERE movie\_lang IN ('Chinese', 'Korean', 'Japanese');

**16.Select the movie names, release dates & international takings of all English language movies.**

->SELECT movie\_name, release\_date, international\_takings FROM movies

NATURAL JOIN movie\_revenues WHERE movie\_lang = 'English';

**17.Select the movie names, domestic takings and international takings for all movies with either missing domestic takings or missing international takings and order the results by movie name.**

->SELECT movie\_name, domestic\_takings, international\_takings FROM movies NATURAL JOIN movie\_revenues WHERE domestic\_takings IS NULL OR international\_takings IS NULL ORDER BY movie\_name;

**18. Use left join to select the first and last names of all British directors and the names and age certificates of the movies that they directed.**

->SELECT first\_name, last\_name, movie\_name, age\_certificate FROM directors

LEFT JOIN movies USING (director\_id) WHERE nationality = 'British';

**19.Count the number of movies that each director has directed.**

->SELECT first\_name || ' ' || last\_name AS full\_name, COUNT(movie\_id) FROM directors

NATURAL JOIN movies GROUP BY director\_id;

**20.Select the first names, last names and dates of birth from directors & actors table. Order the result by the date of birth.**

->SELECT first\_name, last\_name, date\_of\_birth FROM directors

UNION SELECT first\_name, last\_name, date\_of\_birth FROM actors;

**21.Select the first and last names of all directprs and actors born in the 1960s. Order the result by last name**.

->SELECT first\_name, last\_name FROM directors

WHERE date\_of\_birth BETWEEN '1960-01-01' AND '1969-12-31'

UNION SELECT first\_name, last\_name

FROM actors WHERE date\_of\_birth BETWEEN '1960-01-01' AND '1969-12-31'

ORDER BY last\_name;