

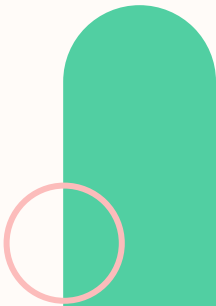
Full Stack Web Development

Exercise

Exercise

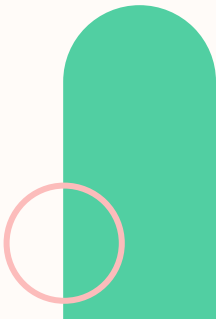
Work in a small group to design a database for library that could handle an activity:

1. How to become a member
2. Keep books information
3. Track member activity (borrow books, staff in charge)
4. Track member transaction (total, fine, member could borrow books more than one in single transaction)
5. Staff information
6. Staff schedule
7. Library branch (location)



Exercise

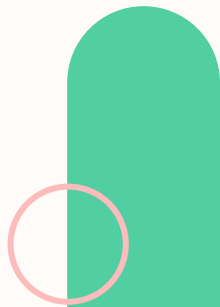
1. Work in a small group to analyze and design a database for social media such as linkedin. Define what kind of tables do you need based on linkedin activity.
2. Work in a small group to analyze and design a database for ecommerce such as tokopedia. Define what kind of tables do you need based on that apps activity.



Exercise

Go to <https://dev.mysql.com/doc/index-other.html> and download world db. Extract and import world data into your MySQL.

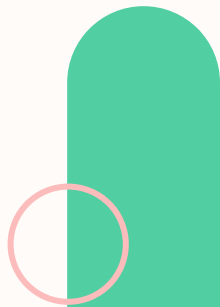
1. Find country name with most population from table country
2. Find the second one country with most population from table country
3. Find country name with lowest population from table country
4. Find the third one country with lowest population from table country
5. Find the largest continent by sum surface area with life expectancy more than 75



Exercise

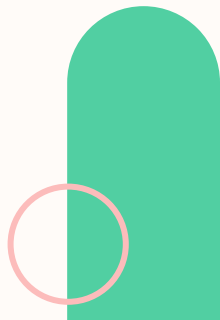
Go to <https://dev.mysql.com/doc/index-other.html> and download sakila db. Extract and import sakila data into your MySQL.

1. Show all data using IN, and display the country_id and country columns of the following countries: China, Bangladesh, and India
2. Find every actors whose last names contain the letters OD. Order the rows by last name and first name, in that order
3. Modify table actors. Add a middle_name column to the table actor. Position it between first_name and last_name. Hint: you will need to specify the data type.
4. List every last names of actors and the number of actors who have that last name, but only for names that are shared by at least two actors
5. Join the table and display the first and last names, as well as the address, of each staff member.



Exercise

6. Find out how many copies of the film “Hunchback Impossible” exist in the inventory system
7. Find and display the most frequently rented movies in descending order.
8. Write down a query in order to display each store its store ID, city, and country
9. Use subqueries to display every actors who appear in the film Alone Trip.
10. Delete the middle_name column from table actors



Thank You!

