# Module-5) Se - Database - Assessment

* Consider three table named as city, customer and country.
* Now commute the following tasks :

Task 1:

* List all Countries and customers related to these countries.
* [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM country [LEFT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-functions.html%23function_left) JOIN customer ON country.id = customer.city\_id;
* For each country displaying its name in English, the name of the city customer is located in as well as the name of the customer.
* [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) country.country\_name AS Country, city.city\_name AS City, customer.customer\_name AS Customer FROM country [LEFT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-functions.html%23function_left) JOIN city ON country.id = city.country\_id [LEFT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-functions.html%23function_left) JOIN customer ON city.id = customer.city\_id;
* Return even countries without related cities and customers.
* [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) country.country\_name AS country, NULL AS city, NULL AS customer FROM country [LEFT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-functions.html%23function_left) JOIN city ON country.id = city.country\_id [LEFT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-functions.html%23function_left) JOIN customer ON city.id = customer.city\_id WHERE city.id [IS](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html%23operator_is) NULL [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) customer.id [IS](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html%23operator_is) NULL;

Task : 2

(join multiple tables using both left and inner join)

* Return the list of all countries that have pairs(exclude countries which are not referenced by any city). For such pairs return all customers.

-- Retrieve all countries with referenced cities

SELECT DISTINCT c.country\_name

FROM countries c

JOIN cities ci ON c.country\_id = ci.country\_id;

* Return even pairs of not having a single customer
* [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) \* FROM customer INNER JOIN country ON customer.customer\_id=country.country\_id;