JOINING TABLES

INNER JOIN:

Inner join selects records that have matching values in both tables

SELECT PERSON.person_name, UNIVERSITY.university_name FROM PERSON INNER JOIN UNIVERSITY ON PERSON.university = UNIVERSITY.university_id

LEFT JOIN

Left join returns all records from left table (TABLE 1) and the matched records from the right table (TABLE 2). Note that if there is no match from the right side → the result is **NULL** !!!

SELECT PERSON.person_name, UNIVERSITY.university_name FROM PERSON LEFT JOIN UNIVERSITY ON PERSON.university = UNIVERSITY.university id

RIGHT JOIN

Left join returns all records from right table (TABLE 2) and the matched records from the left table (TABLE 1). Note that if there is no match from the left side → the result is **NULL** !!!

SELECT PERSON.person_name, UNIVERSITY.university_name FROM PERSON RIGHT JOIN UNIVERSITY ON PERSON.university = UNIVERSITY.university id

/* count the number of cities by countries

SELECT countryTable.name AS Country,
COUNT(cityTable.country_code) AS NumOfCities FROM city AS
cityTable JOIN country AS countryTable ON cityTable.country_code
= countryTable.code GROUP BY cityTable.country_code ORDER BY
NumOfCities DESC;

/* count the population by continents

SELECT SUM(cityTable.population) AS TotalPopulation, countryTable.continent AS Continent FROM city AS cityTable JOIN country AS countryTable ON cityTable.country_code = countryTable.code GROUP BY countryTable.continent ORDER BY TotalPopulation DESC;