CIND110 Assignment 1

Karnaz Obaidullah

1. Retrieve all country languages that are official and spoken in either Spain or France.

SELECT DISTINCT CL.Language

FROM worlddb.countrylanguage AS CL

JOIN worlddb.country AS C

ON CL.CountryCode = C.Code

WHERE CL.IsOfficial IN ("T", “F”)

AND C.Name IN ("Spain","France");

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1. Retrieve all country languages where the percentage of speakers is unknown (NULL).

SELECT DISTINCT Language

FROM worlddb.countrylanguage

WHERE Percentage IS NULL;

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1. Retrieve all country languages that are spoken in countries where the official language is not English.

SELECT DISTINCT CL.Language

FROM worlddb.countrylanguage AS CL

WHERE CL.IsOfficial IN ("F")

AND CL.CountryCode IN (SELECT DISTINCT CL.CountryCode

FROM worlddb.countrylanguage AS CL

WHERE CL.IsOfficial IN ("T")

AND CL.Language NOT LIKE "English");

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1. Retrieve all country languages that are not official languages of any country.

SELECT DISTINCT CL.Language

FROM worlddb.countrylanguage AS CL

WHERE CL.IsOfficial IN ("F")

AND CL.Language

NOT IN

(SELECT CL.Language

FROM worlddb.countrylanguage AS CL

WHERE CL.IsOfficial IN ("T"));

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1. Retrieve all countries with their corresponding capital city and official language.

SELECT CO.Name AS Country, CI.Name AS CapitalCity, CL.Language AS OfficialLanguage

FROM worlddb.country AS CO

INNER JOIN worlddb.city AS CI

ON CO.Capital = CI.ID

INNER JOIN worlddb.countrylanguage AS CL

ON CO.Code = CL.CountryCode

WHERE CL.IsOfficial IN ("T");

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1. Show the number of countries in each continent.

SELECT Continent, COUNT(Name) AS 'Number of Countries'

FROM worlddb.country

GROUP BY Continent;

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1. Which cities have a population greater than the average population of their corresponding countries? List the cities along with their corresponding countries and populations in descending order of their populations.

SELECT CI.Name As City, CO.Name As Country, CI.Population

FROM worlddb.city AS CI

INNER JOIN worlddb.country AS CO

ON CI.CountryCode = CO.Code

WHERE CI.Population > (SELECT AVG(CI2.Population)

FROM worlddb.city AS CI2

WHERE CI.CountryCode = CI2.CountryCode)

ORDER BY CI.Population DESC;

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