**PART 1**

1. What is the capital of country X ? (Accept X from user)

PREPARE capital FROM

'SELECT capital

FROM new\_world.country

WHERE lower (name) = ?';

SET @c = 'peru';

EXECUTE capital USING @c;

SET @c = 'ecuador';

EXECUTE capital USING @c;

DEALLOCATE PREPARE capital;

1. List all the languages spoken in the region Y (Accept Y from user)

PREPARE language\_region FROM

'SELECT DISTINCT cl.language, co.region

FROM new\_world.country co

JOIN new\_world.countrylanguage cl

ON co.code = cl.countrycode

WHERE region REGEXP ?

ORDER BY region';

SET @lr = 'central america';

EXECUTE language\_region USING @lr;

SET @lr = 'south america';

EXECUTE language\_region USING @lr;

DEALLOCATE PREPARE language\_region;

1. Find the number of cities in which language Z is spoken (Accept Z from user)

PREPARE cities\_same\_language FROM

'SELECT COUNT(ci.name)

FROM new\_world.city ci

JOIN new\_world.countrylanguage cl

ON ci.countrycode = cl.countrycode

WHERE language LIKE ?';

SET @sl = 'english';

EXECUTE cities\_same\_language USING @sl;

SET @sl = 'spanish';

EXECUTE cities\_same\_language USING @sl;

DEALLOCATE PREPARE cities\_same\_language;

1. List all the continents with the number of languages spoken in each continent

PREPARE number\_languages FROM

'SELECT co.continent, COUNT(cl.language) AS totalLanguages

FROM new\_world.country co

JOIN new\_world.countrylanguage cl

ON co.code = cl.countrycode

WHERE continent = ?

GROUP BY continent

HAVING totalLanguages';

SET @c = 'asia';

EXECUTE number\_languages USING @c;

SET @c = 'oceania';

EXECUTE number\_languages USING @c;

DEALLOCATE PREPARE number\_languages;

1. Are there any countries that have
   1. Same official language and b. Same region

PREPARE same\_language\_region FROM

'SELECT co.name AS country

FROM new\_world.country co

JOIN new\_world.countrylanguage cl

ON co.code = cl.countrycode

WHERE IsOfficial = T AND language IN (?) AND region IN (?)';

SET @co = 'peru';

EXECUTE same\_language\_region USING @co;

SET @co = 'sweden';

EXECUTE same\_language\_region USING @co;

DEALLOCATE PREPARE same\_language\_region;