**SQL:**

Task 1:

select \* from city where id = 1661

Task 2:

select \* from city where population > 100000 and countrycode = 'usa'

Task 3:

select \* from city where countrycode = 'jpn'

Task 4:

select name from city where countrycode = 'jpn'

Task 5:

select city, state from station

Task 6:

select distinct city from station where id % 2 = 0;

select count(city) - count(distinct city) from station;

Task 7:

select city c, length(city) l

from station

order by l desc, c asc

limit 1;

select city c, length(city) l

from station

order by l asc, c asc

limit 1;

Task 8:

select distinct city from station where

(city like 'a%'

or city like 'e%'

or city like 'i%'

or city like 'o%'

or city like 'u%')

Task 9:

SELECT distinct CITY

FROM STATION

where

( CITY LIKE '%a'

OR CITY LIKE '%e'

OR CITY LIKE '%i'

OR CITY LIKE '%o'

OR CITY LIKE '%u'

)

Task 10:

select distinct city

from station

where (city like 'a%'

or city like 'e%'

or city like 'i%'

or city like 'o%'

or city like 'u%'

) and (city like '%a'

or city like '%e'

or city like '%i'

or city like '%o'

or city like '%u'

)

SQL Bonus:

**Queríes with aggregates:**

1. # Find the revenue of 2013

SELECT SUM(Total) FROM invoices WHERE strftime("%Y", InvoiceDate) ="2013"

1. # Find the number of tracks belong to the genre Rock

SELECT count(\*) FROM tracks join genres on genres.GenreId = tracks.GenreId WHERE genres.Name = "Rock"

1. # Find the number of customers each employee has supported

SELECT count(\*) FROM customers join employees on customers.SupportRepId = employees.EmployeeId

1. # Find the customer who paid the most

SELECT FirstName, LastName, MAX(Total) from customers join invoices on customers.CustomerId = invoices.CustomerId

1. # Find the richest artist