HackerRank SQL Basic

Revising the Select Query I

Query all columns for all American cities in the CITY table with populations larger than 100000. The CountryCode for America is USA.

The CITY table is described as follows:

Field Type ID NUMBER NAME VARCHAR2(17) COUNTRYCODE VARCHAR2(3) DISTRICT VARCHAR2(20) POPULATION NUMBER

SELECT *

FROM city

WHERE population > 100000 AND countrycode = 'USA';

Revising the Select Query II

Query the **NAME** field for all American cities in the **CITY** table with populations larger than 120000. The **CountryCode** for America is USA.

The **CITY** table is described as follows:

CITY		
Field	Туре	
ID	NUMBER	
NAME	VARCHAR2(17)	
COUNTRYCODE	VARCHAR2(3)	
DISTRICT	VARCHAR2(20)	
POPULATION	NUMBER	

SELECT name

FROM city

WHERE population > 120000 AND countrycode = 'USA';

Select All

Query all columns (attributes) for every row in the CITY table.

The **CITY** table is described as follows:

CITY

Field	Туре
ID	NUMBER
NAME	VARCHAR2(17)
COUNTRYCODE	VARCHAR2(3)
DISTRICT	VARCHAR2(20)
POPULATION	NUMBER

SELECT *
FROM city;

Select By ID

Query all columns for a city in CITY with the ID 1661.

The CITY table is described as follows:

CITY

Field	Туре
ID	NUMBER
NAME	VARCHAR2(17)
COUNTRYCODE	VARCHAR2(3)
DISTRICT	VARCHAR2(20)
POPULATION	NUMBER

SELECT *
FROM city
WHERE id = 1661;

Japanese Cities' Attributes

Query all attributes of every Japanese city in the CITY table. The COUNTRYCODE for Japan is JPN.

The **CITY** table is described as follows:

CITY

Field	Туре
ID	NUMBER
NAME	VARCHAR2(17)
COUNTRYCODE	VARCHAR2(3)
DISTRICT	VARCHAR2(20)
POPULATION	NUMBER

SELECT *
FROM city
WHERE countrycode = 'JPN';

Japanese Cities' Names

Query the names of all the Japanese cities in the CITY table. The COUNTRYCODE for Japan is JPN.

The **CITY** table is described as follows:

CITY

Field	Туре
ID	NUMBER
NAME	VARCHAR2(17)
COUNTRYCODE	VARCHAR2(3)
DISTRICT	VARCHAR2(20)
POPULATION	NUMBER

SELECT name FROM city WHERE countrycode = 'JPN';

Weather Observation Station 1

Query a list of CITY and STATE from the STATION table.

The **STATION** table is described as follows:

STATION

Field	Туре
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where **LAT_N** is the northern latitude and **LONG_W** is the western longitude.

SELECT t.city, t.state FROM station AS t;

Weather Observation Station 3

Query a list of **CITY** names from **STATION** for cities that have an even **ID** number. Print the results in any order, but exclude duplicates from the answer.

The **STATION** table is described as follows:

STATION

Field	Туре
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where **LAT_N** is the northern latitude and **LONG_W** is the western longitude.

Weather Observation Station 4

Find the difference between the total number of CITY entries in the table and the number of distinct CITY entries in the table.

The **STATION** table is described as follows:

STATION

Field	Туре
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where **LAT_N** is the northern latitude and **LONG_W** is the western longitude.

For example, if there are three records in the table with **CITY** values 'New York', 'New York', 'Bengalaru', there are 2 different city names: 'New York' and 'Bengalaru'. The query returns, because.

SELECT COUNT(city) - COUNT (DISTINCT city) FROM station;

Weather Observation Station 5

Query the two cities in **STATION** with the shortest and longest *CITY* names, as well as their respective lengths (i.e.: number of characters in the name). If there is more than one smallest or largest city, choose the one that comes first when ordered alphabetically.

The **STATION** table is described as follows:

STATION

Field	Туре
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where **LAT_N** is the northern latitude and **LONG_W** is the western longitude.

SELECT DISTINCT (city), LENGTH (city) FROM station ORDER BY LENGTH (city) ASC, city ASC LIMIT 1; SELECT DISTINCT (city), LENGTH (city) FROM station ORDER BY LENGTH (city) DESC, city ASC LIMIT 1;