

--1. Revising Aggregations - The Count Function

--Query a count of the number of cities in CITY having a Population larger than 100000

SOLUTION:

```
SELECT COUNT(NAME)
FROM CITY
WHERE POPULATION>100000;
```

OUTPUT:

6

--2. Revising Aggregations - The Sum Function

--Query the total population of all cities in CITY where District is California.

SOLUTION:

```
SELECT SUM(POPULATION)
FROM CITY
WHERE DISTRICT='CALIFORNIA';
```

OUTPUT:

339002

--3.Revising Aggregations - Averages

--Query the average population of all cities in CITY where District is California.

SOLUTION:

```
SELECT AVG(POPULATION)
FROM CITY
WHERE DISTRICT='CALIFORNIA';
```

OUTPUT:

113000.667

--4.Average Population

--Query the average population for all cities in CITY, rounded down to the nearest integer.

SOLUTION:

```
SELECT FLOOR(AVG(POPULATION))
FROM CITY;
```

OUTPUT:

454250

--5.Japan Population

--Query the sum of the populations for all Japanese cities in CITY. .

SOLUTION:

```
SELECT SUM(POPULATION)
FROM CITY
WHERE COUNTRYCODE ='JPN'
```

OUTPUT:

879196

--1. Population Census

--Query the sum of the populations of all cities where the CONTINENT is 'Asia'.

SOLUTION

```
SELECT SUM(CITY.POPULATION) FROM CITY
JOIN COUNTRY
ON CITY.COUNTRYCODE=COUNTRY.CODE
WHERE CONTINENT="ASIA";
```

OUTPUT:

27028484

--2.African Cities -

--Query the names of all cities where the CONTINENT is 'Africa'.

SOLUTION:

```
SELECT CITY.NAME
FROM CITY
JOIN COUNTRY
ON CITY.COUNTRYCODE=COUNTRY.CODE
WHERE COUNTRY.CONTINENT="AFRICA";
```

OUTPUT:

Qina
Warraq al-Arab
Kempton Park
Alberton
Klerksdorp
Uitenhage
Brakpan
Libreville

--3.Average Population of Each Continent-

--Query the names of all the continents and their respective average city populations rounded down to the nearest integer.

SOLUTION:

```
SELECT COUNTRY.CONTINENT, FLOOR(AVG(CITY.POPULATION))
FROM CITY
JOIN COUNTRY
ON CITY.COUNTRYCODE=COUNTRY.CODE
GROUP BY COUNTRY.CONTINENT;
```

OUTPUT:

Oceania 109189
South America 147435
Europe 175138
Africa 274439
Asia 693038