Assignment 3.10

Create a presentation for the business managers & technical team

Business Managers

Answer 3.6 Step 2
Min, Max, and Average

SQL
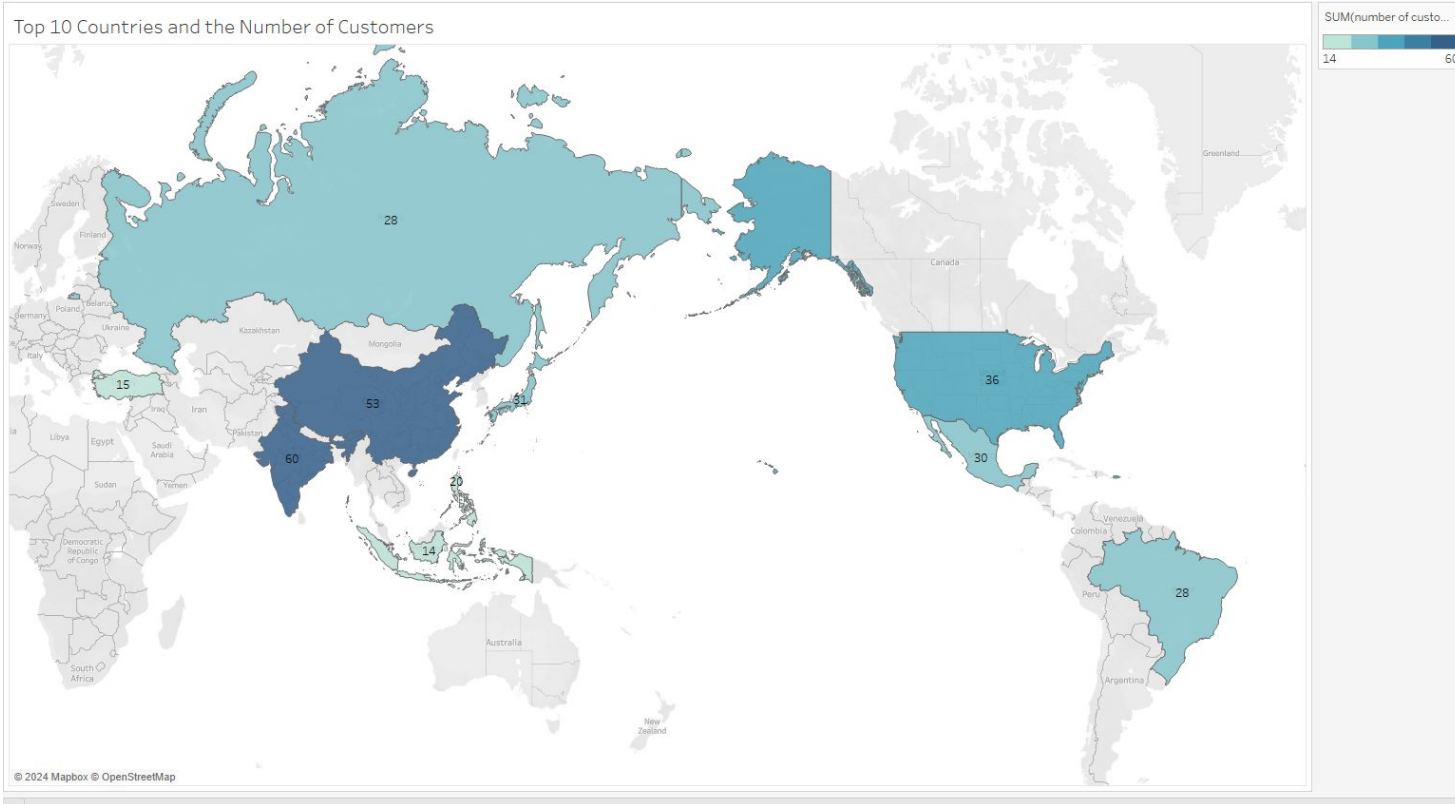
```
SELECT
    MIN(release_year) AS min_release_year,
    MAX(release_year) AS max_release_year,
    AVG(release_year) AS avg_release_year,
    MIN(language_id) AS min_language_id,
    MAX(language_id) AS max_language_id,
    AVG(language_id) AS avg_language_id,
    MIN(rental_duration) AS min_rental_duration,
    MAX(rental_duration) AS max_rental_duration,
    AVG(rental_duration) AS avg_rental_duration,
    MIN(length) AS min_length,
    MAX(length) AS max_length,
    AVG(length) AS avg_length,
    MIN(last_update) AS min_last_update,
    MAX(last_update) AS max_last_update
FROM film;
```

min release year	max release year	avg release year	min language id	max language id	avg language id	min rental duration
2006	2019	2006	1	1	1	3

max rental duration	avg rental duration	min length	max length	avg length	min last update	max last update
7	5	46	185	115.272	50:59.0	26:23.6

Answer 3.7 Step 1

Top 10 Countries and the Number of Customers

SUM(number of custo...
14   60

SQL - Top 10 Countries
with the most customers

SELECT
    D.country,
    COUNT(A.customer_id)
AS number_of_customers
FROM
    customer A
INNER JOIN
    address B ON
A.address_id =
B.address_id
INNER JOIN
    city C ON B.city_id =
C.city_id
INNER JOIN
    country D ON
C.country_ID =
D.country_ID
GROUP BY
    D.country
ORDER BY
    number_of_customers
DESC
LIMIT 10;
Tableau Link click here

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Answer 3.7 Step 2

Top 10 Cities and the Number of Customers

SUM(Number Of Custo...
○ 1
○ 2

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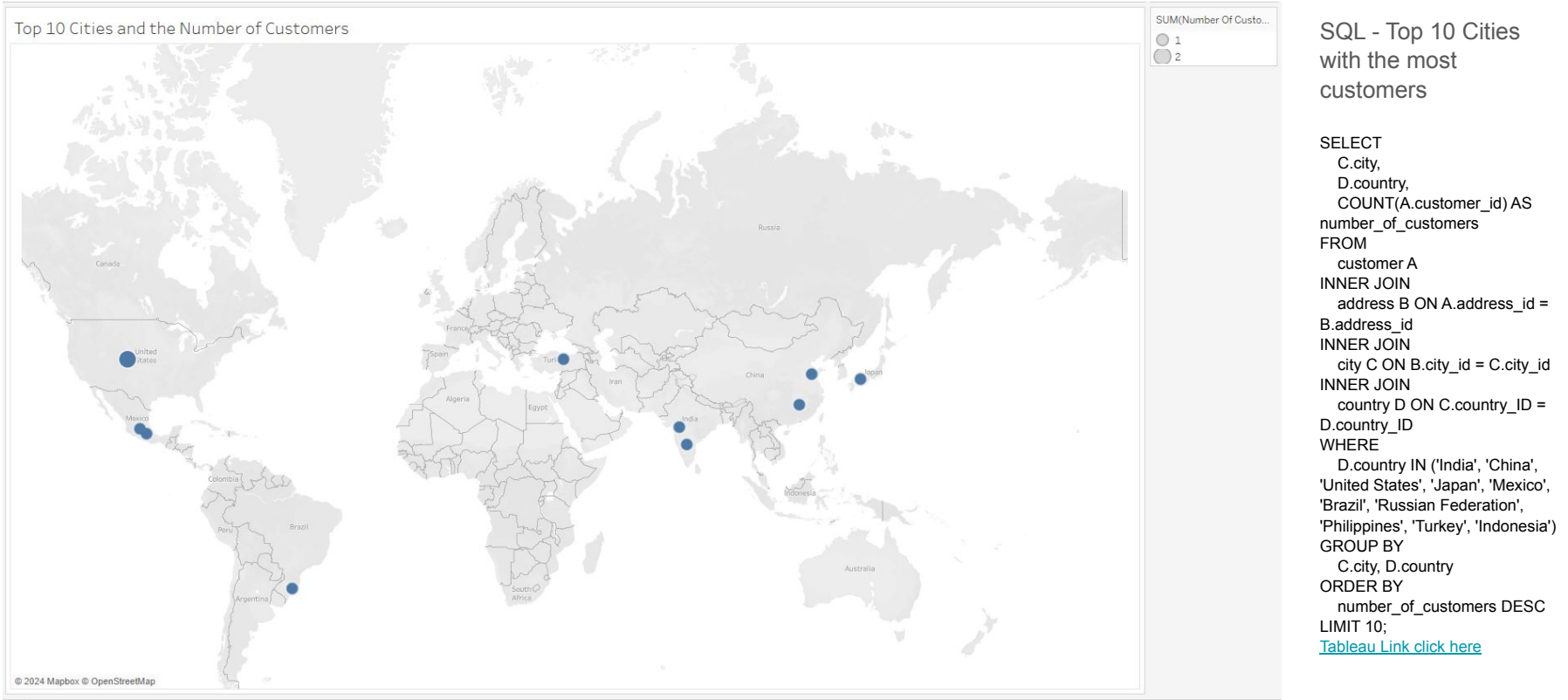
SQL - Top 10 Cities with the most customers

```
SELECT
    C.city,
    D.country,
    COUNT(A.customer_id) AS
number_of_customers
FROM
    customer A
INNER JOIN
    address B ON A.address_id =
B.address_id
INNER JOIN
    city C ON B.city_id = C.city_id
INNER JOIN
    country D ON C.country_ID =
D.country_ID
WHERE
    D.country IN ('India', 'China',
'United States', 'Japan', 'Mexico',
'Brazil', 'Russian Federation',
'Philippines', 'Turkey', 'Indonesia')
GROUP BY
    C.city, D.country
ORDER BY
    number_of_customers DESC
LIMIT 10;
```
Tableau Link click here

Answer 3.7 Step 3

Top 5 Customers and their Location

SUM(Total Paid)

97.80   128.70

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SQL - Top 5 high paying customers

```
SELECT
    A.customer_id,
    A.first_name,
    A.last_name,
    C.city,
    D.country,
    SUM(E.amount) AS total_paid
FROM
    customer A
INNER JOIN
    address B ON A.address_id =
B.address_id
INNER JOIN
    city C ON B.city_id = C.city_id
INNER JOIN
    country D ON C.country_ID =
D.country_ID
INNER JOIN
    payment E ON A.customer_id =
E.customer_id
WHERE
    C.city IN ('Aurora', 'Atlixco', 'Xintai',
'Adoni', 'Dhule (Dhulia)', 'Kurashiki',
'Pingxiang', 'Sivas', 'Celaya', 'Sao
Leopoldo')
GROUP BY
    A.customer_id, C.city, D.country
ORDER BY
    total_paid DESC
LIMIT 5;
```
Tableau Link click here