An Analysis on Women's Safety while travelling

Milestone: Implementation in NoSQL

Group 10

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Percentage of Effort Contributed by Student1: <u>50</u>

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Query 1: To find the cities where the safety rating is greater than 4.5


```
{ "Safety_Rating": { "$gt": 4.5 } }
```



```
_id: ObjectId('6749034bbddadfac1d76ae59')
SafetyData_ID : 25
City : "Glendale"
Safety_Rating : 4.6
Harassment_Reports : 4
Safety_Policies : "Safety reporting tools"
Emer_Serv_Availability : 1


_id: ObjectId('6749034bbddadfac1d76ae5b')
SafetyData_ID : 27
City : "Hong Kong"
Safety_Rating : 4.7
Harassment_Reports : 4
Safety_Policies : "Women-only helpline"
Emer_Serv_Availability : 1


_id: ObjectId('6749034bbddadfac1d76ae5d')
SafetyData_ID : 29
City : "Irvine"
Safety_Rating : 4.6
Harassment_Reports : 5
Safety_Policies : "Rapid response units"
Emer_Serv_Availability : 1
```

Query 2: To find all reviews from platform TripAdvisor where the score is between 4 and 4.5 and the review was written in city New York, and display the Platform, Score, and City fields.

```
{
    "Platform": "TripAdvisor",
    "Score": { "$gte": 4, "$lte": 4.5 },
    "City": "New York"
}
```

⊕ ADD DATA ▾   ⤴ EXPORT DATA ▾   ✏ UPDATE   🗑 DELETE

```
_id: ObjectId('6749037ebddadfac1d76ae60')
Review_ID : 1
City : "New York"
Traveler_ID : 1
Platform : "TripAdvisor"
Date : 2024-01-12T00:00:00.000+00:00
Score : 4.5
```

Query 3: To find the total population of all cities in the country with CountryCode "AFG", and return the total population and the number of cities in that country.

```
 1 ▾ [
 2 ▾    {
 3         "$match": { "CountryCode": "AFG" }
 4      },
 5 ▾    {
 6 ▾       "$group": {
 7            "_id": null,
 8            "totalPopulation": { "$sum": "$Population" },
 9            "cityCount": { "$sum": 1 }
10         }
11      }
12    ]
13
```

PIPELINE OUTPUT

Sample of 1 document

```
_id: null
totalPopulation : 2332100
cityCount : 4
```

Query 4: To find all initiatives that were effective after January 1, 2023

```
   {
      "Effective_Date": {
         "$gt": ISODate("2024-01-01T00:00:00.000Z")
      }
   }
```

Generate query · Explain · Res

[+ ADD DATA ▾] [⟐ EXPORT DATA ▾] [✎ UPDATE] [🗑 DELETE]   25 ▾ 1 – 4 of 4

_id: ObjectId('674902efbddadfac1d76add3')
Ini_ID : 6
Effective_Date : 2024-04-12T00:00:00.000+00:00
Description : "Dedicated support for women"
Ini_Name : "CitySafe Helpline"
City : "Rome"

_id: ObjectId('674902efbddadfac1d76add9')
Ini_ID : 12
Effective_Date : 2024-02-05T00:00:00.000+00:00
Description : "Women-only transport options"
Ini_Name : "Safe Commute Project"
City : "Moscow"

_id: ObjectId('674902efbddadfac1d76adde')
Ini_ID : 17
Effective_Date : 2024-03-01T00:00:00.000+00:00
Description : "Women-only helplines"
Ini_Name : "Safe City Support"
City : "Orlando"

Query 5: To find female travelers under the age of 25 who are traveling to London

```
   {
      "Gender": "Female",
      "Age": { "$lt": 25 },
      "City": "London"
   }
```

Generate query · Explain · Res

[+ ADD DATA ▾] [⟐ EXPORT DATA ▾] [✎ UPDATE] [🗑 DELETE]   25 ▾ 1 – 1 of 1

_id: ObjectId('67490456bddadfac1d76afd0')
Traveler_ID : 49
Name : "Kennedy Coleman"
Age : 24
YearOfTravel : 2023
Gender : "Female"
Email : "kennedy.c@example.com"
Phone_No : "123-456-7838"
Origin : "Fremont"
City : "London"