## An Analysis on Women's Safety while travelling

Milestone: Implementation in NoSQL

Group 10
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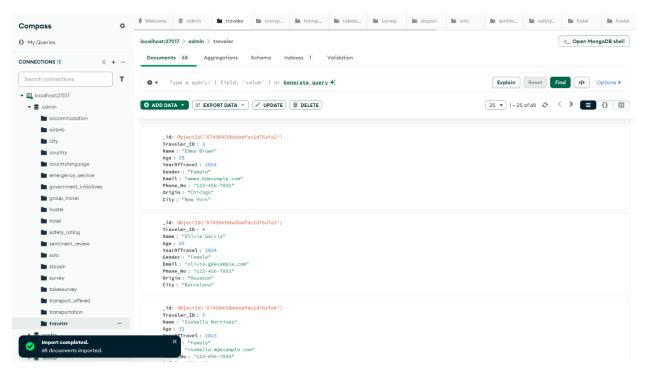
Percentage of Effort Contributed by Student1: <u>50</u>

Percentage of Effort Contributed by Student2: 50

**Signature of Student 1: Stephy Romichan** 

**Signature of Student 2: Meghana Sreenivasa Rao** 

**Submission Date: 12/01/2024** 



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

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.

```
PIPELINE OUTPUT
 1 • [
                                                               (4) (=)
                                                                          Sample of 1 document
          "$match": { "CountryCode": "AFG" }
  3
  4
  5 🕶
                                                                                _id: null
         "$group": {
                                                                                totalPopulation: 2332100
  6 ▼
            "_id": null,
                                                                                cityCount: 4
           "totalPopulation": { "$sum": "$Population" },
  9
           "cityCount": { "$sum": 1 }
 10
      }
 11
 12
13
```

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

```
    Generate query ★ Explain

                                                                                                            Res
            "$gt": ISODate("2024-01-01T00:00:00.000Z")
25 v 1 - 4 of 4
      _id: ObjectId('674902efbddadfac1d76add3')
      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')
      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

```
    Generate query ★

 0 -
                                                                                           Explain
                                                                                                    Rese
         "Gender": "Female",
         "Age": { "$lt": 25 },
"City": "London"
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"
```