

## **An Analysis on Women's Safety while travelling**

### **Milestone: Implementation in MySQL**

Group 10

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**Percentage of Effort Contributed by Student1: 50**

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1. To display the Traveler table:

SELECT \* FROM TRAVELER;

1 • SELECT \* FROM TRAVELER;

Traveler_ID	Name	Age	YearOfTravel	Gender	Email	Phone_No	Origin	City
1	Alice Johnson	28	2024	Female	alice.j@example.com	123-456-7890	Los Angeles	Paris
2	Sophia Lee	32	2023	Female	sophia.l@example.com	123-456-7891	San Francisco	Tokyo
3	Emma Brown	25	2024	Female	emma.b@example.com	123-456-7892	Chicago	New York
4	Olivia Garcia	29	2024	Female	olivia.g@example.com	123-456-7893	Houston	Barcelona
5	Isabella Martinez	31	2023	Female	isabella.m@example.com	123-456-7894	Miami	Berlin
6	Emily Davis	27	2024	Female	emily.d@example.com	123-456-7895	Denver	Rome
7	Mia Chen	30	2023	Female	mia.c@example.com	123-456-7896	Seattle	Amsterdam
8	Harper Wilson	26	2024	Female	harper.w@example.com	123-456-7897	Austin	Sydney
9	Ava Patel	29	2024	Female	ava.p@example.com	123-456-7898	Atlanta	London
10	Evelyn Kim	33	2023	Female	evelyn.k@example.com	123-456-7899	Boston	Toronto

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

Output

Action Output

#	Time	Action	Message
291	19:56:45	/*!40000 ALTER TABLE `traveler` ENABLE KEYS */	0 row(s) affected
292	19:56:45	UNLOCK TABLES	0 row(s) affected
293	19:56:45	/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */	0 row(s) affected
294	19:56:45	/*!40101 SET SQL_MODE=@OLD_SQL_MODE */	0 row(s) affected
295	19:56:45	/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */	0 row(s) affected
296	19:56:45	/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */	0 row(s) affected
297	19:56:45	/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */	0 row(s) affected
298	19:56:45	/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */	0 row(s) affected
299	19:56:45	/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */	0 row(s) affected
300	19:56:45	/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */	0 row(s) affected
301	20:01:01	SELECT * FROM TRAVELER LIMIT 0, 1000	68 row(s) returned

2. To find the cities where the safety rating is below 5

SELECT CITY, SAFETY\_RATING  
FROM SAFETYDATA  
WHERE SAFETY\_RATING < 5;

```

1 SELECT CITY, SAFETY_RATING
2 FROM SAFETYDATA
3 WHERE SAFETY_RATING < 5;
4

```

Result Grid | Filter Rows:

	CITY	SAFETY_RATING
▶	Amsterdam	4.50
	Anchorage	3.80
	Bangkok	4.10
	Barcelona	4.20
	Baton Rouge	3.60
	Beijing	4.30
	Berlin	3.90
	Birmingham	4.00
	Boise	4.40
	Buenos Aires	3.80

SAFETYDATA 4 x

3. To find government initiatives in cities where the average transportation rating is below 4

```

SELECT INI_NAME, DESCRIPTION, CITY
FROM GOVERNMENT_INITIATIVES
WHERE CITY IN (
    SELECT CITY
    FROM TRANSPORTATION
    GROUP BY CITY
    HAVING AVG(RATING) < 5
);

```

```

1 • SELECT INI_NAME, DESCRIPTION, CITY
2 FROM GOVERNMENT_INITIATIVES
3 WHERE CITY IN (
4     SELECT CITY
5     FROM TRANSPORTATION
6     GROUP BY CITY
7     HAVING AVG(RATING) < 5
8 );

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content

	INI_NAME	DESCRIPTION	CITY
▶	Safe Public Spaces	Public safety and women security	New York
	Protect Women Campaign	Awareness on women safety	Tokyo
	Women Safety Drive	Enhanced women safety policies	Amsterdam
	SafeTravel Program	Helpline for women travelers	Sydney
	Women First Initiative	Public awareness on women safety	London
	CitySafe Helpline	Dedicated support for women	Rome
	Safe Women Initiative	Safety training for women	Dubai
	Safe Spaces Campaign	Public awareness program	Vienna
	CityHelp Initiative	Women support helpline	Lisbon
	Safe Women Initiative	Women security guidelines	Sanil

GOVERNMENT\_INITIATIVES 7 x

4. To identify travelers who stayed in Airbnb accommodations in cities with a safety rating below 3

```
SELECT T.NAME, T.EMAIL, A.CITY, A.ACCO_NAME
FROM TRAVELER T
JOIN STAYSIN S ON T.TRAVELER_ID = S.TRAVELER_ID
JOIN ACCOMMODATION A ON S.ACCO_ID = A.ACCO_ID
JOIN AIRBNB AB ON A.ACCO_ID = AB.ACCO_ID
WHERE A.CITY IN (
    SELECT CITY
    FROM SAFETYDATA
    WHERE SAFETY_RATING < 5
);
```

```
10 • SELECT T.NAME, T.EMAIL, A.CITY, A.ACCO_NAME
11 FROM TRAVELER T
12 JOIN STAYSIN S ON T.TRAVELER_ID = S.TRAVELER_ID
13 JOIN ACCOMMODATION A ON S.ACCO_ID = A.ACCO_ID
14 JOIN AIRBNB AB ON A.ACCO_ID = AB.ACCO_ID
15 WHERE A.CITY IN (
16     SELECT CITY
17     FROM SAFETYDATA
18     WHERE SAFETY_RATING < 5
19 );
```

Result Grid				
Filter Rows:		Export:	Wrap Cell Content:	
NAME	EMAIL	CITY	ACCO_NAME	
Evelyn Kim	evelyn.k@example.com	Amsterdam	Amsterdam Safe Hostel	
Sarah Baker	sarah.b@example.com	Amsterdam	Amsterdam Safe Hostel	
Riley Collins	riley.c@example.com	Anchorage	Anchorage Safe Stay	
Lucas Lee	lucas.l@example.com	Bangkok	Bangkok Safe Stay	
Olivia Garcia	olivia.g@example.com	Barcelona	Barcelona Women Hotel	
Scarlett Adams	scarlett.a@example.com	Barcelona	Barcelona Women Hotel	
Isabella Martinez	isabella.m@example.com	Berlin	Berlin Secure Hostel	
Victoria Allen	victoria.a@example.com	Berlin	Berlin Secure Hostel	
Julia Peterson	julia.p@example.com	Buffalo	Buffalo Safe Hostel	
Liam Brown	liam.b@example.com	Cairo	Cairo Safe Stay	
Aurora Price	aurora.p@example.com	Cairo	Cairo Safe Stay	
Benjamin Wilson	ben.w@example.com	Cape Town	Cape Town Women Ho...	
Leah Myers	leah.m@example.com	Chandler	Chandler Safe Stay	

5. To find the number of people who stayed in a hotel

```
SELECT COUNT(DISTINCT T.TRAVELER_ID) AS NUM_TRAVELERS  
FROM TRAVELER T  
JOIN STAYSIN S ON T.TRAVELER_ID = S.TRAVELER_ID  
JOIN ACCOMMODATION A ON S.ACCO_ID = A.ACCO_ID  
JOIN HOTEL H ON A.ACCO_ID = H.ACCO_ID;
```

```
22 • SELECT COUNT(DISTINCT T.TRAVELER_ID) AS NUM_TRAVELERS  
23 FROM TRAVELER T  
24 JOIN STAYSIN S ON T.TRAVELER_ID = S.TRAVELER_ID  
25 JOIN ACCOMMODATION A ON S.ACCO_ID = A.ACCO_ID  
26 JOIN HOTEL H ON A.ACCO_ID = H.ACCO_ID;  
27  
28
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content
	NUM_TRAVELERS			
▶	34			

6. To identify the accommodations each city has

```
SELECT A.ACCO_NAME, D.CITY, D.COUNTRY  
FROM ACCOMMODATION A  
INNER JOIN DESTINATION D ON A.CITY = D.CITY;
```

```
28 • SELECT A.ACCO_NAME, D.CITY, D.COUNTRY  
29 FROM ACCOMMODATION A  
30 INNER JOIN DESTINATION D ON A.CITY = D.CITY;  
31  
32  
33  
34
```

Result Grid				Filter Rows:	Export:	Wrap
	ACCO_NAME	CITY	COUNTRY			
▶	SafeStay Hostel	Paris	France			
	Women-Only Tokyo Inn	Tokyo	Japan			
	NY Safe Hostel	New York	USA			
	Barcelona Women Hotel	Barcelona	Spain			
	Berlin Secure Hostel	Berlin	Germany			
	Singapore Women Inn	Singapore	Singapore			
	London Safe Stay	London	UK			
	Mumbai Women Hotel	Mumbai	India			
	Sydney Women Hostel	Sydney	Australia			
	Amsterdam Safe Hostel	Amsterdam	Netherlands			
	Rome Women Inn	Rome	Italy			

7. To display the city names beginning with B

```
SELECT CITY, COUNTRY
```

```
FROM DESTINATION
```

```
WHERE CITY LIKE 'B%';
```

```
32 • SELECT CITY, COUNTRY
33 FROM DESTINATION
34 WHERE CITY LIKE 'B%';
35
36
37
```

Result Grid			Filter Rows:
	CITY	COUNTRY	
▶	Bangkok	Thailand	
	Barcelona	Spain	
	Baton Rouge	USA	
	Beijing	China	
	Berlin	Germany	
	Birmingham	USA	
	Boise	USA	
	Buenos Aires	Argentina	
	Buffalo	USA	

8. To find the travelers who have completed a survey

```
SELECT NAME, EMAIL
```

```
FROM TRAVELER T
```

```
WHERE EXISTS (
```

```
    SELECT 1
```

```
    FROM SURVEY S
```

```
    WHERE S.TRAVELER_ID = T.TRAVELER_ID
```

```
);
```

```

36 • SELECT NAME, EMAIL
37 FROM TRAVELER T
38 WHERE EXISTS (
39     SELECT 1
40     FROM SURVEY S
41     WHERE S.TRAVELER_ID = T.TRAVELER_ID
42 );

```

NAME	EMAIL
Alice Johnson	alice.j@example.com
Sophia Lee	sophia.l@example.com
Emma Brown	emma.b@example.com
Olivia Garcia	olivia.g@example.com
Isabella Martinez	isabella.m@example.com
Emily Davis	emily.d@example.com
Mia Chen	mia.c@example.com
Harper Wilson	harper.w@example.com
Ava Patel	ava.p@example.com
Evelyn Kim	evelyn.k@example.com
Grace Moore	grace.m@example.com

9. To find the average rating of accommodations in each city and display the results in descending order of average rating

SELECT CITY, AVG(RATING) AS AVERAGE\_RATING

FROM ACCOMODATION

GROUP BY CITY

ORDER BY AVERAGE\_RATING DESC;

```

44 • SELECT CITY, AVG(RATING) AS AVERAGE_RATING
45 FROM ACCOMODATION
46 GROUP BY CITY
47 ORDER BY AVERAGE_RATING DESC;

```

CITY	AVERAGE_RATING
Tokyo	4.800000
Singapore	4.700000
Berlin	4.600000
Seoul	4.600000
Dubai	4.600000
Prague	4.600000
St. Petersburg	4.500000
Barcelona	4.500000
Lisbon	4.500000
San Antonio	4.500000
Rome	4.500000
Hong Kong	4.500000
Madison	4.400000
Sydney	4.400000
Rio de Janeiro	4.400000

Result 15

Output

#	Time	Action	Message
315	20:22:13	SELECT A.ACCO_NAME, D.CITY, D.COUNTRY FROM ACCOMMODATION A INNER JOIN DESTINATION D ON A.C...	Error Code: 1146. Table 'dma_project.accommodation' doesn't exist
316	20:22:20	SELECT A.ACCO_NAME, D.CITY, D.COUNTRY FROM ACCOMMODATION A INNER JOIN DESTINATION D ON A...	50 row(s) returned
317	20:23:56	SELECT CITY, COUNTRY FROM DESTINATION WHERE CITY LIKE 'B%'; LIMIT 0, 1000	9 row(s) returned
318	20:26:10	SELECT NAME, EMAIL FROM TRAVELER T WHERE EXISTS ( SELECT 1 FROM SURVEY S WHERE S.T...	60 row(s) returned
319	20:28:48	SELECT CITY, AVG(RATING) AS AVERAGE_RATING FROM ACCOMMODATION GROUP BY CITY ORDER BY AVE...	Error Code: 1146. Table 'dma_project.accommodation' doesn't exist
320	20:28:56	SELECT CITY, AVG(RATING) AS AVERAGE_RATING FROM ACCOMMODATION GROUP BY CITY ORDER BY A...	49 row(s) returned