**📖 Mini-Project** | Travelocity Itineraries

**INTRODUCTION:** Travelocity has requested your assistance in creating and presenting customized vacation packages that include flights and activities instead of flights and hotels, in effort to increase bookings. See, they currently offer flights & hotels, but travel trends are showing that travelers are shifting towards alternative accommodation options, like vacation rentals and hostels, or staying with locals through platforms like Airbnb.

They want you to utilize your SQL querying skills to retrieve the necessary data and create unique itineraries!



There is, of course, a challenge. Travelocity has given us some specific parameters for the itineraries that you create:

* You will be creating an itinerary for a **5-7-day trip**.
* The sum price of all tours & activities selected must not exceed **$200 (US dollars) per day**.
* Your itinerary cannot include more than **8 hours** worth of tours & activities per day, unless you choose just one tour for the day. That is, a single 12 hour tour/activity is permitted, but packaging together two 6-hour tours/activities in the same day is not.

**HOW IT WORKS:** Follow the prompts in the questions below to brainstorm and plan your itinerary. Post your answers in the provided boxes!

**—** Data Set **Description**

Data from the travelocity\_tours table includes the following features:

**tour\_id** - Unique ID for each tour

**city** - Location of the tour

**name** - Name of tour

**length** - Time, in hours, that the tour lasts

**cost** - The cost, in local currency, of the tour

**currency** - The currency used in the city

**cost\_usd** - The cost of the tour converted to USD

**rating** - The rating of the tour (5pt scale)

Data from the travelocity\_countries table includes the following features:

**city** - Name of city

**country** - Country where city is located

**continent** - Continent where city is located

**— Task 1:** JOIN the Tables

Since your travel itinerary might feature tours across multiple cities in a country, you need to join the travelocity\_countries table to the travelocity\_tours. Write a query that does just that, returning all columns from both tables.

|  |
| --- |
| select \*  from travelocity\_countries tc  join travelocity\_tours tt  on tc.city = tt.city |

The **WITH** Keyword:

The WITH keyword is used to break complex queries into manageable parts. Replace your join with the following query. For the rest of the tasks, you’ll just add to this query, selecting and aggregating columns of country\_tour\_table.

|  |
| --- |
| WITH country\_tour\_table AS (  SELECT  t.\*,  c.country,  c.continent  FROM travelocity\_tours AS t  INNER JOIN travelocity\_countries AS c  ON t.city = c.city) |

**— Task 2:** Selecting Tours & Activities in a Country

1. Not all countries have multiple cities! If you want to create an itinerary that spans multiple cities, you’ll need to choose a country with multiple cities.

Fill in the blanks of the following query so that it returns the **number of distinct cities in each country**, sorted in descending order based on the count of cities.

**Note:** Remember to keep the country\_tour\_table from the WITH keyword at the top of your query!

|  |
| --- |
| SELECT  country,  COUNT(DISTINCT city) AS n\_cities  FROM country\_tour\_table  GROUP BY country  ORDER BY n\_cities DESC |

1. Next, write a query to look at tours in either one country with multiple cities or one city of your choice. List all columns of the country\_tour\_table for the country/city you choose.

|  |
| --- |
| SELECT \*  FROM country\_tour\_table  WHERE country = 'USA' |

1. Next, write a query to filter to the tours chosen for your itinerary. List all the details for those tours.

**Note:** This is where the fun is! You might write several queries here putting together multiple tours in the country/city you chose to fit within Travelocity’s parameters!

|  |
| --- |
| SELECT \*  FROM country\_tour\_table  WHERE country = 'USA' and rating >=4.5 and cost <= 75 |

**— Task 3:** Summarizing Results

Once you have your itinerary selected, modify your query from Task 2 so that your query returns the **total cost**, the **total number of hours**, and the **average rating of the trip itinerary**, grouped by each city the traveler visits.

|  |
| --- |
| (write your query here) |

**— Task 4:** Showcasing your custom itinerary

Create a few slides highlighting the details of your itinerary (country, cities, total cost, average rating). Get creative in highlighting why someone should take this tour! **Use the slides that are attached to this Google Classroom assignment as a template to build and showcase your own itinerary for your chosen location!**

**— Presentation**

Join us on a demo day, or record up to a 5 minute presentation of your slide deck and attach to this Google Classroom assignment!