

First, we have two data sources

The first source is the `virtual_kitchen_ubereats_hours` table, which contains business hours information for restaurants on the UberEats platform

The second source is the `virtual_kitchen_grubhub_hours` table, which contains business hours information for restaurants on the Grubhub platform

We have three main query files for the analysis

1. The first file, `ueats.sql`, contains queries to explore and extract relevant data from the `virtual_kitchen_ubereats_hours` table
 2. One query selects the first few rows for exploration
 3. Another query extracts start and end times from the regular hours JSON field
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1. The second file, `ghub.sql`, contains queries to explore and extract data from the `virtual_kitchen_grubhub_hours` table
 2. One query selects the first few rows for exploration
 3. It includes additional queries to extract and analyze business hours from the response JSON field
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1. The third file, `query.sql`, is the main file with the query to compute business hour mismatch between Grubhub and UberEats restaurants
 2. The query performs the following steps
 3. It extracts relevant fields like slug open hours start and end times for both platforms using subqueries with JSON extractors
 4. It joins the Grubhub and UberEats data based on a condition
 5. In the main select statement, it compares the Grubhub open time with UberEats start and end times
 6. Using a case statement, it determines if the Grubhub time is in range out of range or within a close threshold of UberEats hours

The key assumptions are as follows

1. The `b_name vb_name` tuple can identify the same restaurant across tables
2. For UberEats, the first menu section is assumed to represent business hours
3. For Grubhub the response field contains the business hours data under a specific path
4. If multiple entries exist for a restaurant, the entry with the latest timestamp should be used
5. The analysis utilizes JSON parsing techniques, avoiding regular expressions
6. The slug field is a unique identifier for each restaurant

The expected output includes the following columns

1. `gh_slug` is the unique Grubhub restaurant identifier
2. `gh_open_hours_string` is a string representation of Grubhub open hours
3. `ue_slug` is the unique UberEats restaurant identifier
4. `ue_start_time` and `ue_end_time` represent UberEats business hours
5. `is_out_of_range`, indicating if Grubhub hours are in range out of range or within a close threshold of UberEats hours

This output enables the identification and analysis of business hour mismatches between virtual restaurants on Grubhub and UberEats, treating UberEats as the ground truth.