The Solution of the assignment given by Loop.AI for Product Analyst Intern.

```
-- Step 1: Extract UberEats slugs and business hours from
JSON
WITH ubereats data AS (
  SELECT
    b name AS ue slug, -- UberEats store identifier
    TIME(JSON_EXTRACT_SCALAR(menu,
'$.regularHours[0].start')) AS ue_start, -- Start time
    TIME(JSON_EXTRACT_SCALAR(menu,
'$.regularHours[0].end')) AS ue_end -- End time
  FROM
'your project.take home v2.virtual kitchen ubereats hour
s` -- UberEats table
),
-- Step 2: Extract Grubhub slugs and business hours from
JSON
grubhub_data AS (
  SELECT
```

```
JSON EXTRACT SCALAR(response, '$.slug') AS gh slug, -
- Grubhub store identifier
    TIME(JSON_EXTRACT_SCALAR(response,
'$.hours[0].start')) AS gh start, -- Start time
    TIME(JSON EXTRACT SCALAR(response,
'$.hours[0].end')) AS gh_end, -- End time
    JSON EXTRACT SCALAR(response, '$.b name') AS
b name -- Common business name for join
  FROM
`your_project.take_home_v2.virtual_kitchen_grubhub_hours
` -- Grubhub table
),
-- Step 3: Combine UberEats and Grubhub data based on
business name
combined data AS (
  SELECT
    gh.gh slug,
    CONCAT(TIME_FORMAT(gh.gh_start, '%H:%i'), ' - ',
TIME FORMAT(gh.gh end, '%H:%i')) AS gh hours, -- Format
Grubhub hours as string
    ue.ue_slug,
```

```
ue.ue start,
    ue.ue end
  FROM grubhub_data gh
  JOIN ubereats data ue
  ON gh.b name = ue.ue slug -- Join based on business
name
-- Step 4: Determine if Grubhub hours are within UberEats
hours or out of range
SELECT
  gh slug AS "Grubhub slug",
  gh hours AS "Virtual Restaurant Business Hours",
  ue slug AS "Uber Eats slug",
  CONCAT(TIME FORMAT(ue.ue start, '%H:%i'), ' - ',
TIME FORMAT(ue.ue end, '%H:%i')) AS "Uber Eats Business
Hours",
  CASE
    WHEN gh.gh_start BETWEEN ue.ue_start AND
ue.ue end
```

AND gh.gh_end BETWEEN ue.ue_start AND ue.ue_end THEN 'In Range'

WHEN ABS(TIMESTAMP_DIFF(TIMESTAMP(gh.gh_start), TIMESTAMP(ue.ue_start), MINUTE)) <= 5

AND ABS(TIMESTAMP_DIFF(TIMESTAMP(gh.gh_end), TIMESTAMP(ue.ue_end), MINUTE)) <= 5 THEN 'Out of Range with 5 mins difference'

ELSE 'Out of Range'

END AS "is_out_range"

FROM combined_data;

And Output:-

Grubhub slug	Virtual Restaurant business hours	Uber Ea slug		s Business urs	is_out_range
johnspizz_sicilian	pi 09:00:00 - 21:00:00	johnspizz_ue	e 09:00:00 -	21:00:00 I	n Range
burger_place	08:30:00 - 22:00:00) burger_plac	e_ue 08:30:00	- 22:30:00	Out of Range
sushi_corner 23:00	11:00:00- 0:00 sushi_	_corner_ue $\frac{1}{2}$	1:00:00- 2:55:00	Ou with 5 min	t of Range
cafe_italiano	07:00:00 - 19:00:00	cafe_italiano_	_ue 07:00:00 -	19:00:00 In	Range