BADM 554
FINAL
PRESENTATION

Team B02

MINI PROJECT 1

Q1. Which cities have the highest number of reviews and what are their average ratings?

```sql
%%sql

SELECT b.city, COUNT(r.stars) AS rating_count, AVG(r.stars) AS average_rating
FROM business b JOIN review r ON b.business_id = r.business_id
GROUP BY b.city
ORDER BY rating_count DESC
LIMIT 5;
```
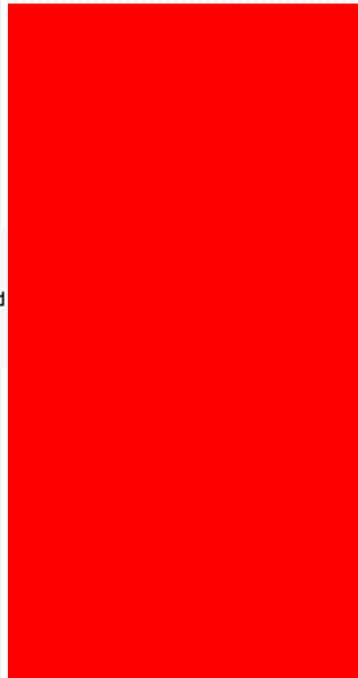
Goal: Get information about opening a successful and outstanding business.

• Used to determine the location where to open the business

• Among 5 cities with the highest rating counts, ▮▮▮▮▮▮ had the lowest average rating

MINI PROJECT 1

Q2. **What is the average rating of businesses in Nashville by postal code?**


```
%%sql
SELECT b.postal_code, AVG(r.stars) AS average_rating
FROM business b JOIN review r ON b.business_id = r.business_id
WHERE b.city = 'nashville'
GROUP BY state, postal_code;
```

• Within selected city (   ) what are business ratings by postal code.

• Determine in which area businesses are having poor performance.

Q3. **What is the number by business categories in Nashville?**

```
%%sql
SELECT c.categories, COUNT(*) AS categories_count
FROM business AS b JOIN categories AS c ON b.business_id = c.business_id
WHERE b.city =
GROUP BY c.categories
ORDER BY categories_count DESC
LIMIT 10;
```

• Count the number of business categories in the city of

• Helpful to decide what type of business we are going to open.

MINI PROJECT 1

Q4. Among businesses in Nashville, how many of them open for the weekend and how many of them do not?

```sql
%%sql
SELECT COUNT(*)
FROM business b JOIN hours h ON b.business_id = h.business_id
WHERE b.city =        AND
Sunday IS NULL AND Saturday IS NULL
```

```sql
%%sql
SELECT COUNT(*)
FROM business b JOIN hours h ON b.business_id = h.business_id
WHERE b.city =        AND
Sunday IS NOT NULL AND Saturday IS NOT NULL
```

• Compare counts of businesses those are open during weekend and those are closed during weekend.

• Useful to determine whether we will open business during weekend or not.

MINI PROJECT 1

Q5. **What are businesses that received rating 1 from the "cool reviews"**

```sql
%%sql
SELECT b.name, r.stars AS user_rating, u.cool AS user_coolness
FROM review AS r JOIN business AS b ON r.business_id = b.business_id
JOIN user AS u ON r.user_id = u.user_id
WHERE u.cool > 5
AND r.stars < 2
AND b.city = ▮▮▮▮▮▮
ORDER BY user_coolness DESC
LIMIT 10;
```

• Find businesses that received 1 star from the review that is "cool".

• Investigate their business strategies and try to avoid it so that our business successfully become "cool".

Key Skills Developed
- Manipulating Json file on Python
- Utilizing database to store and load data
- Building SQL queries based on business goals