

The Zuber Database

You'll study a database, analyze data from competitors, and investigate the impact of weather on ride frequency.

A database with info on taxi rides in Chicago:

- *name*: name of the neighborhood
- *neighborhood_id*: neighborhood code

- cab id: vehicle code

Task 1/6 ✓

1. Print the `company_name` field. Find the number of taxi rides for each taxi company for November 15-16, 2017, name the resulting field `trips_amount` and print it, too. Sort the results by the `trips_amount` field in descending order.
2. Find the number of rides for every taxi companies whose name contains the words "Yellow" or

```
1 SELECT cabs.company_name,
2         COUNT(trips.trip_id) AS trips_amount
3 FROM cabs
4 INNER JOIN trips ON trips.cab_id = cabs.cab_id
5 WHERE CAST(trips.start_ts AS date) BETWEEN '2017-11-15' AND '2017-11-16'
6 GROUP BY company_name
7 ORDER BY trips_amount DESC;
```

Result

| company_name | trips_amount |
|-----------------------------------|--------------|
| Flash Cab | 19558 |
| Taxi Affiliation Services | 11422 |
| Medallion Leasin | 10367 |
| Yellow Cab | 9888 |
| Taxi Affiliation Service Yellow | 9299 |
| Chicago Carriage Cab Corp | 9181 |
| City Service | 8448 |
| Sun Taxi | 7701 |
| Star North Management LLC | 7455 |
| Blue Ribbon Taxi Association Inc. | 5953 |



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Task 2 →



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- 5. For each hour, retrieve the weather condition records from the *weather_records* table. Using the CASE operator, break all hours into two groups: **Bad** if the *description* field contains the

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Theory

The Zuber Database

You're working as an analyst for Zuber, a new ride-sharing company that's launching in Chicago. Your task is to find patterns in the available information. You want to understand passenger preferences and the impact of external factors on rides.

You'll study a database, analyze data from competitors, and investigate the impact of weather on ride frequency.

Description of the data

A database with info on taxi rides in Chicago:

`neighborhoods` table: data on city neighborhoods

- `name`: name of the neighborhood
- `neighborhood_id`: neighborhood code

`cabs` table: data on taxis

The Zuber Database

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5. For each hour, retrieve the weather condition records from the `weather_records` table. Using the CASE operator, break all hours into two groups: `Bad` if the `description` field contains the words `rain` or `storm`, and `Good` for others. Name the resulting field `weather_conditions`. The final table must include two fields: date and hour (`ts`) and `weather_conditions`.

```
1      SELECT
2          ts,
3          CASE
4              WHEN description LIKE '%rain%' OR description LIKE
5                  '%storm%' THEN 'Bad'
6              ELSE 'Good'
7          END AS weather_conditions
8      FROM
9          weather_records;
```

Result

| ts | weather_conditions |
|---------------------|--------------------|
| 2017-11-01 00:00:00 | Good |
| 2017-11-01 01:00:00 | Good |
| 2017-11-01 02:00:00 | Good |
| 2017-11-01 03:00:00 | Good |
| 2017-11-01 04:00:00 | Good |
| 2017-11-01 05:00:00 | Good |
| 2017-11-01 06:00:00 | Good |
| 2017-11-01 07:00:00 | Good |
| 2017-11-01 08:00:00 | Good |
| 2017-11-01 09:00:00 | Good |

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Theory

The Zuber Database

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Description of the data

A database with info on taxi rides in Chicago:

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6. Retrieve from the `trips` table all the rides that started in the Loop (`pickup_location_id`: 50) on a Saturday and ended at O'Hare (`dropoff_location_id`: 63). Get the weather conditions for each ride. Use the method you applied in the previous task. Also, retrieve the duration of each ride. Ignore rides for which data on weather conditions is not available.

The table columns should be in the following order:

- `start_ts`
- `weather_conditions`
- `duration_seconds`

Sort by `trip_id`.

```
1  SELECT
2      t.start_ts,
3      CASE
4          WHEN w.description LIKE '%rain%' OR w.description LIKE
5              '%storm%' THEN 'Bad'
6          ELSE 'Good'
7      END AS weather_conditions,
8      t.duration_seconds
9  FROM
10     trips t
11 JOIN
12     weather_records w ON DATE(t.start_ts) = DATE(w.ts) AND EXTRACT(HOUR
13     FROM t.start_ts) = EXTRACT(HOUR FROM w.ts)
14 WHERE
15     t.pickup_location_id = 50
16     AND t.dropoff_location_id = 63
17     AND EXTRACT(DOW FROM t.start_ts) = 6 -- Saturday
18 ORDER BY
19     t.trip_id;
```

Result

| start_ts | weather_conditions | duration_seconds |
|---------------------|--------------------|------------------|
| 2017-11-25 12:00:00 | Good | 1380 |
| 2017-11-25 16:00:00 | Good | 2410 |
| 2017-11-25 14:00:00 | Good | 1920 |
| 2017-11-25 12:00:00 | Good | 1543 |
| 2017-11-04 10:00:00 | Good | 2512 |
| 2017-11-11 07:00:00 | Good | 1440 |

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