Goal 1: 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.

Code:

```
1 SELECT
     cabs.company_name AS company_name,
 3
       COUNT(trips.trip_id) AS trips_amount
 4 FROM
 5
       trips
 6 INNER JOIN
 7
   cabs
8
   ON
   trips.cab_id = cabs.cab_id
9
10 WHERE
11 CAST(trips.start_ts AS date) BETWEEN '2017-11-15' AND '2017-11-16'
12 GROUP BY
13
   cabs.company_name
14 ORDER BY
15 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
Choice Taxi Association	5015
Globe Taxi	4383
Dispatch Taxi Affiliation	3355
Nova Taxi Affiliation LIc	3175
Patriot Taxi Dba Peace Taxi Associat	2235

Goal 2: Find the number of rides for every taxi companies whose name contains the words "Yellow" or "Blue" for November 1-7, 2017. Name the resulting variable trips_amount. Group the results by the company_name field.

Code:

```
1 SELECT
 2
      cabs.company_name,
 3
      COUNT(trips.trip_id) AS trips_amount
 4
   FROM
    trips
   JOIN cabs ON cabs.cab_id = trips.cab_id
 7
    WHERE
 8
   (cabs.company_name LIKE '%Yellow%' OR cabs.company_name LIKE '%Blue%')
     AND trips.start_ts::date BETWEEN '2017-11-01' AND '2017-11-07'
   GROUP BY
10
    cabs.company_name
11
12
   ORDER BY
13 trips_amount DESC;
```

company_name	trips_amount
Yellow Cab	33668
Taxi Affiliation Service Yellow	29213
Blue Ribbon Taxi Association Inc.	17675
Blue Diamond	6764

Goal 3: Find the number of rides for these two companies and name the resulting variable trips_amount. Join the rides for all other companies in the group "Other." Group the data by taxi company names. Name the field with taxi company names company. Sort the result in descending order by trips_amount.

Code:

```
1 SELECT
      company,
       SUM(trips_amount) as trips_amount
 4 FROM (
 5 SELECT
6 CASE
          WHEN c.company_name = 'Flash Cab' THEN 'Flash Cab'
 7
              WHEN c.company_name = 'Taxi Affiliation Services' THEN 'Taxi Affiliation Services'
9 ELSE 'ULHEL
10 END AS company,
11 COUNT(t.trip_id) AS trips_amount
13
        trips AS t
14
      INNER JOIN
15
        cabs AS c ON t.cab_id = c.cab_id
      WHERE
16
17 (t.Stare
18 GROUP BY
19 company, c.company_name
       (t.start_ts >= '2017-11-01' AND t.start_ts < '2017-11-08')
21 GROUP BY company
22 ORDER BY
23 CASE
24 WHEN company = 'Other' THEN 1
25
      WHEN company = 'Flash Cab' THEN 2
      WHEN company = 'Taxi Affiliation Services' THEN 3
27
      ELSE 4
28 END,
29 trips_amount DESC
```

company	trips_amount
Other	335771
Flash Cab	64084
Taxi Affiliation Services	37583

Goal: Retrieve the identifiers of the O'Hare and Loop neighborhoods from the neighborhoods table.

Code:

```
1 SELECT
2    neighborhood_id,
3    name
4 FROM
5    neighborhoods
6 WHERE
7    name LIKE 'Loop' OR name LIKE '%O''Hare%'
```

neighborhood_id	name
50	Loop
63	O'Hare

Goal: 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.

Code:

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

Goal: 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.

Code:

```
1 SELECT
     trips.start_ts,
       CASE
          WHEN weather_records.description LIKE '%rain%' OR weather_records.description LIKE '%storm%'
    THEN 'Bad'
          ELSE 'Good'
      END AS weather_conditions,
 6
 7
       trips.duration_seconds
8 FROM
9 trips
10 JOIN
weather_records ON trips.start_ts = weather_records.ts
13 trips.pickup_location_id = 50
AND trips.dropoff_location_id = 63
AND EXTRACT(DOW FROM trips.start_ts) = 6
16 ORDER BY
17 trips.trip_id;
```

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
2017-11-11 04:00:00	Good	1320