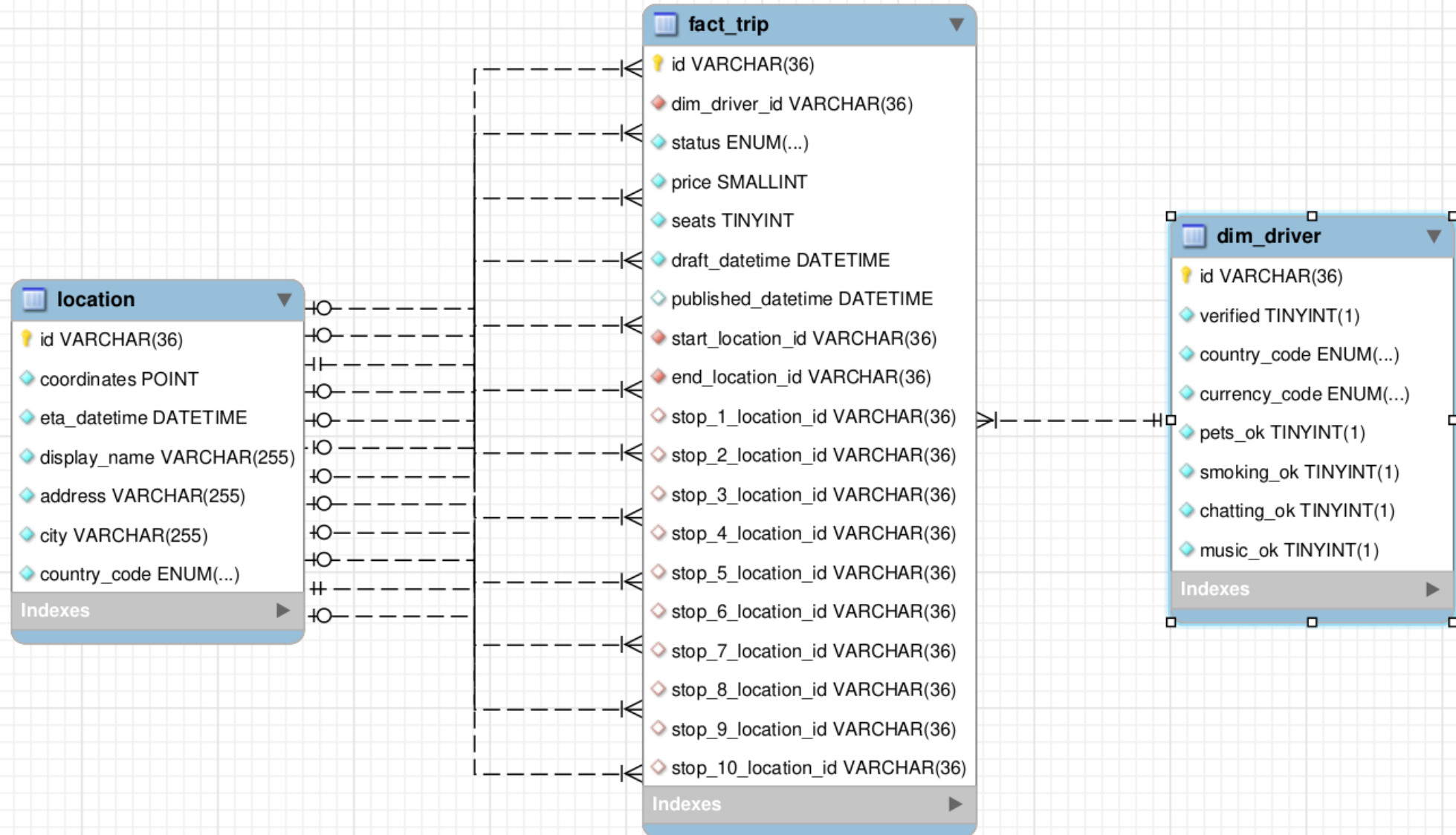# BLABLACAR

DATA MODEL DOCUMENTATION

Online Analytical Processing - Star Schema

Trips

A **trip** is an *offer* from a **driver** to go to different **locations** (at least a *start* and an *end*, plus max 10 stops).

- **status** : actual status of the trip (`ENUM` , `NOT NULL` , ex. : `"FULL"`)
  - *DRAFT* : trip not published yet (`published_datetime IS NULL`)
  - *PUBLISHED* : trip published (`published_datetime IS NOT NULL`)
  - *FULL* : *no more seats* available
  - *FINISHED* : marked *finished* by driver
  - *CANCELLED* : marked *cancelled* by driver
- **price** : price of the trip, set by the driver (`int` , `NOT NULL` , ex. : `123`)
- **seats** : max available seats, set by the driver (`int` , `NOT NULL` , ex. : `2`))
- **draft_datetime** : datetime of last draft save (`datetime` , `NOT NULL` , ex. : `"2022-09-14 17:00:00"`))
- **published_datetime** : datetime of save as a published Trip Offer (`datetime` , ex. : `"2022-09-14 17:23:00"`))
- **start_location_id** : ID of the *trip start* location (`NOT NULL`)
- **end_location_id** : ID of the *trip end* location (`NOT NULL`)
- **stop_{1-10}_location_id** : ID of *intermediate stop* location

Locations

A **location** is a *time and place* of rendez-vous along a **trip**.

- **coordinates** : exact `(lat, lon)` of the location (Point data type, `NOT NULL`, ex. : `(48.864716, 2.349014)`)
- **eta_datetime** : (estimated) date and time of rendez-vous (`datetime`, `NOT NULL`, ex. : `"2022-09-16 09:00:00"`)
- **display_name** : label of the location (`str`, `NOT NULL`, ex. : `"1, Place Denfert Rochereau, Paris, FR"`)
- **address** : address of the location (`str`, `NOT NULL`, ex. : `"1, Place Denfert Rochereau"`)
- **city** : city of the location (`str`, `NOT NULL`, ex. : `"Paris"`)
- **country_code** : country of the location (`str`, `NOT NULL`, ex. : `"FR"`)

Drivers

A **driver** is a user publishing a *trip offer*.

- **verified** : is the user verified or not (`bool` , `NOT NULL` , ex. : `1`)
- **country_code** : country of the user (`str` , `NOT NULL` , ex. : `"FR"`)
- **currency_code** : currency of the user (`str` , `NOT NULL` , ex. : `"EUR"`)
- **pets_ok** : does the user allow pets or not (`bool` , `NOT NULL` , ex. : `0`)
- **smoking_ok** : does the user allow smoking or not (`bool` , `NOT NULL` , ex. : `0`)
- **chatting_ok** : does the user likes chatting or not (`bool` , `NOT NULL` , ex. : `1`)
- **music_ok** : does the user likes music or not (`bool` , `NOT NULL` , ex. : `1`)

Example Queries

How Many Trip Offers Have Been Published Last Month?

```sql
SELECT COUNT(*) AS count_trips
FROM fact_trip trip
WHERE trip.published_datetime >= DATE_TRUNC('month', CURRENT_DATE - INTERVAL '1 month')
    AND trip.published_datetime < DATE_TRUNC('month', CURRENT_DATE)
```

What Country Had The Highest Number Of Publications Last Month?

```sql
SELECT driver.country_code, COUNT(*) AS count_trips
FROM fact_trip trip
JOIN dim_driver driver ON fact_trip.dim_driver_id = dim_driver.id
WHERE trip.published_datetime >= DATE_TRUNC('month', CURRENT_DATE - INTERVAL '1 month')
    AND trip.published_datetime < DATE_TRUNC('month', CURRENT_DATE)
GROUP BY driver.country_code
ORDER BY count_trips DESC
LIMIT 1
```