

# Data-Generation

March 16, 2020

```
In [ ]: # CASB M185 - Wollman
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        # Team Ocelot
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```
        # Script for Querybuilder
```

```
        # Output : Chartevents_features.csv
```

```
In [ ]: -- total amount of chartevents = 330712483
```

```
        /*
```

```
        SELECT COUNT(*)
```

```
        FROM chartevents;
```

```
        */
```

```
        -- confirming itemid for the following features
```

```
        -- arterial pressure (53), blood glucose (50809), heart rate (220045), hospital mortal.
```

```
        -- prediction (226994)
```

```
        /*
```

```
        SELECT * FROM d_items
```

```
        WHERE itemid IN (53, 50809, 220045, 226893, 226994);
```

```
        */
```

```
        -- total amount of events from chartevents with itemid features = 2762411
```

```
        /*
```

```
        SELECT COUNT(*) FROM CHARTEVENTS
```

```
        WHERE itemid IN (53, 50809, 220045, 226893, 226994);
```

```
        */
```

```
        --filtering for itemid features from chartevents
```

```
        SELECT * FROM CHARTEVENTS
```

```
        WHERE itemid IN (53, 50809, 220045, 226893, 226994);
```

```
        -- retrieving patients first admit age from admissions and combining with patients
```

```
        /*
```

```
        WITH first_admission_time AS
```

```
        (
```

```
        SELECT
```

```
            p.subject_id, p.dob, p.gender
```

```
            , MIN (a.admittime) AS first_admittime
```

```

        , MIN( ROUND( (cast(admittime as date) - cast(dob as date)) / 365.242,2) )
          AS first_admit_age
FROM patients p
INNER JOIN admissions a
ON p.subject_id = a.subject_id
GROUP BY p.subject_id, p.dob, p.gender
ORDER BY p.subject_id
)
SELECT
    subject_id, dob, gender, first_admittime, first_admit_age,
CASE
    -- all ages > 89 in the database were replaced with 300
    WHEN first_admit_age > 89
        then '>89'
    WHEN first_admit_age >= 14
        THEN 'adult'
    WHEN first_admit_age <= 1
        THEN 'neonate'
    ELSE 'middle'
    END AS age_group
FROM first_admission_time
ORDER BY subject_id
*/

```

```

In [ ]: -- without filtering in itemid
/*
SELECT l.subject_id, l.hadm_id, l.itemid, a.hospital_expire_flag
FROM labevents l
RIGHT JOIN admissions a
ON a.hadm_id = l.hadm_id
*/

```