We want to work on the public-big-query dataset, table samples and natility.

Understand the feature, labels and relationships between them.

Training an ML model on the “baby\_weight” dataset based on their born wight labels.

Predict new babies' weight.

Create a project

1. Make sure to enable API of your project, <https://console.cloud.google.com/>
2. On bigquery, create a dataset, named baby\_weight
3. Find the natality tabel on public bigquery dataset
4. Understand and analyze the table
5. Follow this instructions to create a trained model and Predict a trained model
   1. Create a table named baby\_weight
   2. simple\_natality\_model is just a name for your model you can write any name for the trained model

# Name trained model

CREATE OR REPLACE MODEL `baby\_weight.simple\_natality\_model`

# Specify options

OPTIONS

(model\_type='linear\_reg',

input\_label\_cols=['weight\_pounds']) AS

# Provide training data

SELECT

mother\_age,

Mother\_married,

gestation\_weeks,

weight\_gain\_pounds,

is\_male,

weight\_pounds

FROM

`bigquery-public-data.samples.natality`

WHERE

weight\_pounds IS NOT NULL # Filter for rows containing data we want to predict.

1. Predict the model

SELECT \* FROM

ML.PREDICT(MODEL `baby\_weight.simple\_natality\_model`,

(

SELECT

mother\_age,

mother\_married,

gestation\_weeks,

weight\_gain\_pounds,

is\_male,

weight\_pounds

FROM

`bigquery-public-data.samples.natality`

WHERE

weight\_pounds IS NOT NULL)

)

LIMIT 10