Transformations

-------Created Main Table —----------

```
CREATE TABLE maternal_health
(
case_id Int Primary key,
age_years_old Int,
color_ethnicity Int,
hypertension_past_reported Int,
hypertension_past_treatment varchar(100),
diabetes_mellitus_dm_reported Int,
diabetes_mellitus_disease_gap varchar(100),
diabetes_mellitus_treatment varchar(100),
tobacco_use Int,
tobacco_use_in_months varchar(100),
tobacco_quantity_by_day varchar(100),
alcohol_use Int,
alcohol_quantity_milliliters varchar(100),
alcohol_preference varchar(100),
drugs_preference varchar(100),
drugs_years_use varchar(100),
drugs_during_pregnancy varchar(100),
past_newborn_1_weight varchar(100),
gestational_age_past_newborn_1 varchar(100),
past_newborn_2_weight varchar(100),
gestational_age_past_newborn_2 varchar(100),
past_newborn_3_weight varchar(100),
gestational_age_past_newborn_3 varchar(100),
past_newborn_4_weight varchar(100),
gestational_age_past_4_newborn varchar(100),
breakfast_meal Int,
morning_snack Int,
lunch_meal Int,
```

afternoon_snack Int,
meal_dinner Int,
supper_meal Int,
bean Int,
fruits Int,
vegetables Int,
embedded_food Int,
pasta Int,
cookies Int,
right_systolic_blood_pressure varchar(100),
right_diastolic_blood_pressure varchar(100),
left_systolic_blood_pressure varchar(100),
left_diastolic_blood_pressure varchar(100),
periumbilical_subcutanous_fat varchar(100),
periumbilical_visceral_fat varchar(100),
periumbilical_total_fat varchar(100),
preperitoneal_subcutaneous_fat Float,
preperitoneal_visceral_fat Float,
gestational_age_at_inclusion Float,
fetal_weight_at_ultrasound varchar(100),
weight_fetal_percentile varchar(100),
past_pregnancies_number varchar(100),
miscarriage Int,
first_trimester_hematocrit float,
second_trimester_hematocrit varchar(100),
third_trimester_hematocrit varchar(100),
firt_trimester_hemoglobin float,
second_trimester_hemoglobin varchar(100),
third_trimester_hemoglobin varchar(100),
first_tri_fasting_blood_glucose Int,
second_tri_fasting_blood_glucose varchar(100),
third_tri_fasting_blood_glucose varchar(100),
"1st_hour_ogtt75_1st_tri" varchar(100),
"1st_hour_ogtt75_2tri" varchar(100),
"1st_hour_ogtt75_3tri" varchar(100),

"2nd_hour_ogtt_1tri" varchar(100),
"2nd_hour_ogtt75_2tri" varchar(100),
"2nd_hour_ogtt_3tri" varchar(100),
hiv_1tri varchar(100),
syphilis_1tri varchar(100),
c_hepatitis_1tri varchar(100),
prepregnant_weight varchar(100),
prepregnant_bmi varchar(100),
bmi_according_who varchar(100),
current_maternal_weight_1st_tri varchar(100),
current_maternal_weight_2nd_tri varchar(100),
current_maternal_weight_3rd_tri varchar(100),
maternal_weight_at_inclusion float,
hight_at_inclusion float,
current_bmi float,
current_bmi_according_who Int,
ultrasound_gestational_age float,
maternal_brachial_circumference float,
circumference_maternal_calf float,
maternal_neck_circumference float,
maternal_hip_circumference float,
maternal_waist_circumference float,
mean_tricciptal_skinfold float,
mean_subscapular_skinfold float,
mean_supra_iliac_skin_fold float,
gestational_age_at_birth float,
prepartum_maternal_weight varchar(100),
prepartum_maternal_heigh varchar(100),
delivery_mode Int,
cesarean_section_reason varchar(100),
hospital_systolic_blood_pressure varchar(100),
hospital_diastolic_blood_pressure varchar(100),
hospital_hypertension Int,
preeclampsia_record_pregnancy Int,
gestational_diabetes_mellitus Int,

```
chronic_diabetes varchar(100),
chronic_diseases varchar(100),
disease_diagnose_during_pregnancy varchar(100),
treatment_disease_pregnancy varchar(100),
number_prenatal_appointments varchar(100),
expected_weight_for_the_newborn varchar(100),
newborn_weight varchar(100),
newborn_height varchar(100),
newborn_head_circumference varchar(100),
thoracic_perimeter_newborn Float,
meconium_labor Int,
apgar_1st_min Int,
apgar_5th_min Int,
pediatric_resuscitation_maneuvers Int,
newborn_intubation Int,
newborn_airway_aspiration Int,
mothers_hospital_stay Int);

select * from public.maternal_health
```

----------Created Table Demographics----------

```
Create table demographics as
  select case_id,
 age_years_old,
 Color_ethnicity
 FROM Maternal_Health;

 select * from demographics
```

---------Created Table Pregnancy_Nutritional_Details----------

```
create table Pregnancy_Nutritional_Details as
```

```
 select case_id,
breakfast_meal, morning_snack,
 lunch_meal,
 afternoon_snack,
meal_dinner,
supper_meal,
 bean,
 fruits,
vegetables,
Embedded_food,
 pasta,
cookies FROM maternal_health;

select * from Pregnancy_Nutritional_Details
```

----------Created Table Anthropometry----------

```
Create table Anthropometry as
select
case_id ,
maternal_brachial_circumference ,
circumference_maternal_calf ,
maternal_neck_circumference ,
maternal_waist_circumference ,
maternal_hip_circumference ,
mean_tricciptal_skinfold ,
mean_subscapular_skinfold ,
mean_supra_iliac_skin_fold
from maternal_health;

select * from Anthropometry
```

----------Created Table Ultrasound_results----------

```
create table Ultrasound_results
as select
case_id,
periumbilical_subcutanous_fat,
periumbilical_visceral_fat,
periumbilical_total_fat,
preperitoneal_subcutaneous_fat,
preperitoneal_visceral_fat,
gestational_age_at_inclusion,
fetal_weight_at_ultrasound,
weight_fetal_percentile,
ultrasound_gestational_age
FROM maternal_health;


select * from Ultrasound_results
```

----------Created table Fetal_Development_Risk----------

```
create table Fetal_Development_Risk
as select
case_id,
tobacco_use,
tobacco_use_in_months,
tobacco_quantity_by_day,
alcohol_use,
alcohol_quantity_milliliters,
alcohol_preference,
drugs_preference,
drugs_years_use,
drugs_during_pregnancy,
hiv_1tri,
syphilis_1tri,
c_hepatitis_1tri,
```

```
gestational_diabetes_mellitus,
chronic_diabetes,
chronic_diseases,
hypertension_past_reported,
hypertension_past_treatment,
diabetes_mellitus_dm_reported,
diabetes_mellitus_disease_gap,
diabetes_mellitus_treatment
from maternal_health;

select * from Fetal_Development_Risk
```

----Created table BMI_metrics----------

```
Create table BMI_metrics
as select
case_id,
prepregnant_weight,
prepregnant_bmi,
bmi_according_who,
current_maternal_weight_1st_tri,
current_maternal_weight_2nd_tri,
current_maternal_weight_3rd_tri,
maternal_weight_at_inclusion,
hight_at_inclusion,
current_bmi,
current_bmi_according_who
from maternal_health;

select * from BMI_metrics
```

----------Created table Hospitalization_Labor----------

```
Create table Hospitalization_Labor
as select case_id,
disease_diagnose_during_pregnancy,
treatment_disease_pregnancy,
prepartum_maternal_weight,
prepartum_maternal_heigh,
delivery_mode,
cesarean_section_reason,
hospital_systolic_blood_pressure,
hospital_diastolic_blood_pressure,
hospital_hypertension,
preeclampsia_record_pregnancy,
mothers_hospital_stay,
number_prenatal_appointments
FROM maternal_health;

select * from Hospitalization_Labor
```

----------Created table Previous_Pregnancy------

```
Create Table Previous_Pregnancy
as select
case_id,
past_newborn_1_weight,
gestational_age_past_newborn_1,
past_newborn_2_weight,
gestational_age_past_newborn_2,
past_newborn_3_weight,
gestational_age_past_newborn_3,
past_newborn_4_weight,
gestational_age_past_4_newborn,
past_pregnancies_number,
```

```
miscarriage
FROM maternal_health;

select * from Previous_Pregnancy
```

---------Created table New_Born_Details---------

```
Create table New_Born_Details
as select
case_id,
expected_weight_for_the_newborn,
newborn_weight,
newborn_height,
newborn_head_circumference,
thoracic_perimeter_newborn,
newborn_intubation,
newborn_airway_aspiration,
gestational_age_at_birth,
pediatric_resuscitation_maneuvers,
apgar_1st_min,
apgar_5th_min,
meconium_labor
from maternal_health;
```

----------Created Table Labs----------

```
create table Labs
as select
case_id,
first_trimester_hematocrit,
second_trimester_hematocrit,
third_trimester_hematocrit,
firt_trimester_hemoglobin,
second_trimester_hemoglobin,
third_trimester_hemoglobin,
```

```
first_tri_fasting_blood_glucose,
second_tri_fasting_blood_glucose,
third_tri_fasting_blood_glucose,
"1st_hour_ogtt75_1st_tri",
"1st_hour_ogtt75_2tri",
"1st_hour_ogtt75_3tri",
"2nd_hour_ogtt_1tri",
"2nd_hour_ogtt75_2tri",
"2nd_hour_ogtt_3tri",
right_systolic_blood_pressure,
right_diastolic_blood_pressure,
left_systolic_blood_pressure,
left_diastolic_blood_pressure
from maternal_health;

select * from Labs
```

Column Transformations

Color_ethnicity -> Replaced 0 with White, 1 with black, 2 with brown, 3 with Asian

It alters the data type of the `color_ethnicity` column to `VARCHAR(100)`, which allows storing text values up to 100 characters in length.

```
Alter table demographics
Alter Column color_ethnicity type varchar(100);
```

Updates the values in the `color_ethnicity` column based on predefined conditions.

```
update demographics
SET color_ethnicity = CASE
   WHEN color_ethnicity = '0' THEN 'White'
   WHEN color_ethnicity = '1' THEN 'Black'
```

```
   WHEN color_ethnicity = '2' THEN 'Brown'
   ELSE  'Asian'
END;
```

Expected_weight_for_the_newborn -> Changed gram to kgs upto 2 decimal places

This query updates the `expected_weight_for_the_newborn` column in the `New_Born_Details` table to convert its value from grams to kilograms, rounded to two decimal places.

```
UPDATE New_Born_Details
SET expected_weight_for_the_newborn =
ROUND(CAST(expected_weight_for_the_newborn AS NUMERIC) / 1000, 2);
```

Newborn_weight -> Changed gram to kgs upto 2 decimal places

This query updates the `newborn_weight` column in the `New_Born_Details` table to convert its value from grams to kilograms, rounded to two decimal places.

```
UPDATE New_Born_Details
SET newborn_weight = ROUND(CAST(newborn_weight AS NUMERIC) / 1000, 2);
```

Apgar_1st_min -> For case id: 176 the value 99 looks typo because as per 5th minute the data is 10 so it could be 9. Replaced 99 to 9 for case_id: 176.

This query updates the `apgar_1st_min` column in the `new_born_Details` table.

```
UPDATE new_born_Details
SET apgar_1st_min = 9 WHERE apgar_1st_min = 99 ;
```

Bmi_according_who -> Replaced dataset values

0 with Underweight,
1 with Normal weight,
2 with Overweight,
3 with Obesity

We categorized values with these ranges provided

Underweight: BMI < 18.5
Normal weight: BMI 18.5–24.9
Overweight: BMI 25.0–29.9
Obesity: BMI ≥ 30.0
Class I (Moderate obesity): BMI 30.0–34.9
Class II (Severe obesity): BMI 35.0–39.9
Class III (Morbid obesity): BMI ≥ 40.0

We found that one of the case_id (1) was in the range of obese instead of overweight and few (39,223,285) were overweight instead of Normal so we updated accordingly

```
UPDATE bmi_metrics
SET bmi_according_who = 'Overweight'
WHERE case_id = 1;

UPDATE bmi_metrics
SET bmi_according_who = 'Normal'
WHERE case_id IN (39, 223,285);
```

This query updates the `bmi_according_who` column in the `bmi_metrics` table by replacing coded numeric values with their corresponding textual labels based on the World Health Organization (WHO) BMI classification.

```
UPDATE bmi_metrics
SET bmi_according_who =
 CASE
      WHEN bmi_according_who = '0' THEN 'Underweight'
      WHEN bmi_according_who = '1' THEN 'Normal'
      WHEN bmi_according_who = '2' THEN 'Overweight'
      WHEN bmi_according_who = '3' THEN 'Obese'
      ELSE Null
   END;
```

Weight_fetal_percentile -> **"Updating the column values as WHEN weight_fetal_percentile = '1' THEN '10-25'**

```
  WHEN weight_fetal_percentile = '2' THEN '25'
  WHEN weight_fetal_percentile = '3' THEN '25-50'
  WHEN weight_fetal_percentile = '4' THEN '50'
  WHEN weight_fetal_percentile = '5' THEN '50-75'
  WHEN weight_fetal_percentile = '6' THEN '75'
```

```
WHEN weight_fetal_percentile = '7' THEN '75-90'
WHEN weight_fetal_percentile = '8' THEN '90'
WHEN weight_fetal_percentile = 'not_applicable' THEN NULL
```

We found that case_id 283 has weight_fetal_percentile = 25 given range was (0-8) which was Outlier so we considered as Null

```
UPDATE Ultrasound_results
SET weight_fetal_percentile = NULL
WHERE case_id = 283;
```

This query updates the `weight_fetal_percentile` column in the `Ultrasound_results` table, mapping numeric codes to descriptive percentile ranges or values.

```
UPDATE Ultrasound_results
SET weight_fetal_percentile = CASE
    WHEN weight_fetal_percentile = '1' THEN '10-25'
    WHEN weight_fetal_percentile = '2' THEN '25'
    WHEN weight_fetal_percentile = '3' THEN '25-50'
    WHEN weight_fetal_percentile = '4' THEN '50'
    WHEN weight_fetal_percentile = '5' THEN '50-75'
    WHEN weight_fetal_percentile = '6' THEN '75'
    WHEN weight_fetal_percentile = '7' THEN '75-90'
    WHEN weight_fetal_percentile = '8' THEN '90'
    ELSE weight_fetal_percentile
END;
```

cesarean_section_reason ->

1. **Standardized the Text -Elective'**

- 'Placental detachment'
- 'Acute fetal distress'
- 'Breech presentation'
- 'Not applicable'
- 'Cephalopelvic disproportion'
- 'Placenta previa'
- 'Fetal growth restriction'
- 'Maternal acute hypertension'
- 'Previous cesarean section'
- 'Fetal macrosomia'
- 'No answer'
- 'Non-reassuring fetal status (NRFS)'
- 'Unsuccessful induction'

2. Replaced 8 and 12 with null.
3. Replaced "not_applicable" & '"not_answered" to null

Query executed:

```
---Changes in Cesearean_section_reason column

--1.Change 8,12

UPDATE hospitalization_labor
SET cesarean_section_reason = NULL
WHERE cesarean_section_reason IN ('8', '12');


--2.Standardize the Text in cesearean_section_reason column

UPDATE hospitalization_labor
SET cesarean_section_reason = CASE
   WHEN cesarean_section_reason ILIKE 'eletiva' THEN 'elective'
   WHEN cesarean_section_reason ILIKE 'placentae detachment' THEN 'placenta
detachment'
   WHEN cesarean_section_reason ILIKE 'Nonreassuring fetal status%' THEN
'nonreassuring fetal status (nrfs)'
   WHEN cesarean_section_reason ILIKE 'previa' THEN 'placenta previa'
   WHEN cesarean_section_reason ILIKE 'fetal macrosomia%' THEN 'fetal
macrosomia'
```

```
    ELSE cesarean_section_reason
END;
```

chronic_diabetes ->

1.caseid :88 and caseid :118 have values 888 and 88888 but these patients have no DM hence can be replaced by 0
2.This column can be updated from values in 'disease diagnosed during pregnancy ' column

Query executed:

```
--FOR chronic_diabetes
---1.Updating Chronic_diabetes values 888,88888 to 0

UPDATE fetal_development_risk
SET chronic_diabetes =
    CASE
        WHEN chronic_diabetes IN ('888', '88888') THEN 0
        ELSE chronic_diabetes::INTEGER
    END;


—2.Chronic diabetes column updated depending on 'disease diagnosed during pregnancy ' column

UPDATE fetal_development_risk as f
SET
    chronic_diabetes =
        CASE
            WHEN chronic_diabetes IS NULL AND
disease_diagnose_during_pregnancy ILIKE '%DM' THEN '1'
            ELSE chronic_diabetes
        END
FROM hospitalization_labor as h
where f.case_id = h.case_id
and disease_diagnose_during_pregnancy IS NOT NULL;
```

treatment_disease_pregnancy->

Replacing foreign languages with english , medicine names is standardized

- **‘diet’ → ' Diet '**
- **Language translation: 'Sem tto' → 'No treatment'**
- **'ac valproico' → 'Valproic acid'**
- **'Medicamento' → 'Medication'**
- **'insulina' → 'Insulin'**
- **'tapazol' → 'Tapazole'**
- **'aspirina' → 'Aspirin'**
- **'metformina' → 'Metformin'**
- **'Metildopa' → 'Methyldopa'**
- **'sim' → 'Yes'**
- **'Predinisolone' → ‘Predinisolona’**
- **'medication’ → 'Medication'**
- **0 and 45 values replace with null.**

Query executed:

```
--.Update treatment_disease_pregnancy
--1.Standardize the text in treatment_disease_pregnancy
UPDATE hospitalization_labor
SET treatment_disease_pregnancy = CASE
   WHEN treatment_disease_pregnancy ILIKE '%diet%' THEN 'Diet'
   WHEN treatment_disease_pregnancy ILIKE '%Sem tto%' THEN 'No
treatment'
   WHEN treatment_disease_pregnancy ILIKE '%ac valproico%' THEN 'Valproic
acid'
   WHEN treatment_disease_pregnancy ILIKE '%Medicamento%' THEN
'Medication'
   WHEN treatment_disease_pregnancy ILIKE '%insulina%' THEN 'Insulin'
   WHEN treatment_disease_pregnancy ILIKE '%tapazol%' THEN 'Tapazole'
   WHEN treatment_disease_pregnancy ILIKE '%aspirina%' THEN 'Aspirin'
   WHEN treatment_disease_pregnancy ILIKE '%metformina%' THEN
'Metformin'
   WHEN treatment_disease_pregnancy ILIKE '%Metildopa%' THEN
'Methyldopa'
   WHEN treatment_disease_pregnancy ILIKE '%sim%' THEN 'Yes'
```

```
        WHEN treatment_disease_pregnancy::TEXT = '0' OR
treatment_disease_pregnancy::TEXT = '45' THEN NULL
        WHEN treatment_disease_pregnancy ILIKE '%xetin%' THEN 'Fluoxetine'
        WHEN treatment_disease_pregnancy ILIKE '%predinisolona%' THEN
'Predinisolone'
        ELSE treatment_disease_pregnancy
END;


—2.Converting not_applicable to null
update hospitalization_labor set treatment_disease_pregnancy = null where
treatment_disease_pregnancy = 'not_applicable';

update hospitalization_labor set treatment_disease_pregnancy = 'Medication'
where treatment_disease_pregnancy = 'medication';
```

preperitoneal_total_fat->

- Changed the data types from varchar to float
- Updated not_applicable to null
- Updated missing values from Periumbilical Subcutaneous fat column from Periumbilical total fat and Periumbilical visceral fat columns for caseid 9.
- Added new column preperitoneal total fat by adding preperitoneal subcutaneous fat and preperitoneal visceral fat columns.

Query executed:

```
--1.Changing data types from VARCHAR to FLOAT
UPDATE ultrasound_results set periumbilical_subcutanous_fat = null where
periumbilical_subcutanous_fat = 'not_applicable';
UPDATE ultrasound_results set periumbilical_visceral_fat = null where
periumbilical_visceral_fat = 'not_applicable';
UPDATE ultrasound_results set periumbilical_total_fat = null where
periumbilical_total_fat = 'not_applicable';
ALTER TABLE ultrasound_results
ALTER COLUMN periumbilical_subcutanous_fat TYPE FLOAT USING
periumbilical_subcutanous_fat::FLOAT;
ALTER TABLE ultrasound_results
```

```
ALTER COLUMN periumbilical_visceral_fat TYPE FLOAT USING
periumbilical_visceral_fat::FLOAT;
ALTER TABLE ultrasound_results
ALTER COLUMN periumbilical_total_fat TYPE FLOAT USING
periumbilical_total_fat::FLOAT;

--2.updating subcutaneous fat value using total- visceral fat
UPDATE ultrasound_results
SET periumbilical_subcutanous_fat = Round((periumbilical_total_fat -
periumbilical_visceral_fat)::NUMERIC,1)
WHERE case_id = 9;

--3.Add new column as preperitoneal_total_fat
ALTER TABLE ultrasound_results ADD COLUMN  preperitoneal_total_fat
Float;
--Update new column using sub fat and vis fat columns
UPDATE ultrasound_results
SET preperitoneal_total_fat = Round((preperitoneal_subcutaneous_fat +
preperitoneal_visceral_fat)::NUMERIC,1);
```

third_trimester_hemoglobin->

- Case_id 177 has an outlier 121 which is corrected to 12.1
- data type conversion.
- Not_applicables to null.

Query executed:

```
---update third_trimester_hemoglobin column in Labs table from 121 to 12.1
update labs set third_trimester_hemoglobin = 12.1 where  case_id = 177;
update labs set third_trimester_hemoglobin = null where
third_trimester_hemoglobin = 'not_applicable';

ALTER TABLE labs
ALTER COLUMN third_trimester_hemoglobin TYPE FLOAT USING
third_trimester_hemoglobin::FLOAT;
```

hypertension_past_treatment->

- Replace not_applicable by null.

- **Referring to the previous column,converted 0 to 1 and 1 to 0 indicating 0 means No Medication,1 means Medication.**

Query executed:

```
--.convert hypertension_past_treatment column from 0 to 1 and 1 to 0

UPDATE fetal_development_risk
SET hypertension_past_treatment= CASE
   WHEN hypertension_past_treatment = '0' THEN '1'
   WHEN hypertension_past_treatment = '1' THEN '0'
   ELSE  hypertension_past_treatment
        END;

-----Update bmi_according_who column for few case_ids

UPDATE bmi_metrics
SET bmi_according_who = 'Overweight'
WHERE case_id = 1;

UPDATE bmi_metrics
SET bmi_according_who = 'Normal'
WHERE case_id IN (39, 223,285);

–Update weight_fetal_percentile column to null for case_id = 283

UPDATE Ultrasound_results
SET weight_fetal_percentile = NULL
WHERE case_id = 283;

---modified the data types from integer to Float and converted grams to Kg for the below list of columns
```

1. past_newborn_1_weight
2. past_newborn_2_weight
3. past_newborn_3_weight
4. past_newborn_4_weight

```
ALTER TABLE previous_pregnancy
ALTER COLUMN past_newborn_1_weight TYPE FLOAT USING
past_newborn_1_weight::FLOAT;
```

```
ALTER TABLE previous_pregnancy
ALTER COLUMN past_newborn_2_weight TYPE FLOAT USING
past_newborn_2_weight::FLOAT;

ALTER TABLE previous_pregnancy
ALTER COLUMN past_newborn_3_weight TYPE FLOAT USING
past_newborn_3_weight::FLOAT;

ALTER TABLE previous_pregnancy
ALTER COLUMN past_newborn_4_weight TYPE FLOAT USING
past_newborn_4_weight::FLOAT;

UPDATE previous_pregnancy
SET past_newborn_1_weight = past_newborn_1_weight/1000;

UPDATE previous_pregnancy
SET past_newborn_1_weight = round(past_newborn_1_weight::numeric, 2);

UPDATE previous_pregnancy
SET past_newborn_2_weight = round((past_newborn_2_weight/1000)::numeric,
2);

UPDATE previous_pregnancy
SET past_newborn_3_weight = round((past_newborn_3_weight/1000)::numeric,
2);

UPDATE previous_pregnancy
SET past_newborn_4_weight = round((past_newborn_4_weight/1000)::numeric,
2);
```

1.alcohol_preference

Changed 0 values to Fermented, and 1 values to Distilled.
Not Applicable changed to null.

Query executed:

```
UPDATE public.fetal_development_risk
SET alcohol_preference = CASE
```

```
    WHEN alcohol_preference = '0' THEN 'Fermented'
    WHEN alcohol_preference = '1' THEN 'Distilled'
    WHEN alcohol_preference = 'not_applicable' THEN null
    ELSE alcohol_preference
END;
```

2.drugs_preference

Not Applicable changed to 0 and data type changed to Integer.

Query executed:

```
UPDATE public.fetal_development_risk
SET drugs_preference = 0
WHERE drugs_preference = 'not_applicable';

ALTER TABLE fetal_development_risk
ALTER COLUMN drugs_preference TYPE INT USING
drugs_preference::INT;
```

3.past_pregnancies_number

case_id= 48 and 201, changed past_pregnancies_number to 2.
case_id = 70, 182, 239, 263, 220 changed past_pregnancies_number to 1.
case_id = 15 and 240 changed past_pregnancies_number to 0.
Also, changed data type to Integer.

Query executed:

```
update public.previous_pregnancy
set  past_pregnancies_number = 2
where case_id in (48,201);

update public.previous_pregnancy
set past_pregnancies_number = 1
where case_id in (70, 182, 239, 263, 220);

update public.previous_pregnancy
set  past_pregnancies_number = 0
```

where case_id in (15,240);

ALTER TABLE previous_pregnancy
ALTER COLUMN past_pregnancies_number TYPE INT USING past_pregnancies_number::INT;

4.periumbilical_subcutanous_fat

For case_id = 9 subcutanous_fat is not_applicable and visceral_fat is 39.6 and total fat is 55 so subcutanous_fat needs to be changed to 15.4

Query executed:

UPDATE public.ultrasound_results
set periumbilical_subcutanous_fat = 15.4 where case_id = 9;

5.periumbilical_total_fat

For case_id in (266,269,275,278,283,285,273,280,282,286,287) replaced blanks by adding M-sat n M-Vat.

Query executed:

UPDATE public.ultrasound_results
SET periumbilical_total_fat = ROUND(CAST(periumbilical_subcutanous_fat + periumbilical_visceral_fat AS NUMERIC), 2) :: FLOAT
WHERE case_id IN (266, 269, 275, 278, 283, 285, 273, 280, 282, 286,287);

6.maternal_weight_at_inclusion

Updated the null value to 81.28 for case_Id = 124. Calculated from hight_at_inclusion and current_BMI.

Query executed:

update public.bmi_metrics
set maternal_weight_at_inclusion = round(cast(current_bmi * hight_at_inclusion * hight_at_inclusion as numeric),2) :: float
where case_id = 124;

7.hiv_1tri

Replaced not_applicable with null and changed data type to integer. Also, where type_of_disease_diagnose_during_pregnancy is HIV, changed the value of this column to 1.

Query executed:

```
select * from fetal_development_risk where case_id = 1;
update public.fetal_development_risk
set hiv_1tri = null
where hiv_1tri = 'not_applicable';

 ALTER TABLE public.fetal_development_risk
 ALTER COLUMN hiv_1tri TYPE integer
 USING hiv_1tri::integer;

 update public.fetal_development_risk fd
 set hiv_1tri = 1
from hospitalization_labor hl
where fd.case_id = hl.case_id
and disease_diagnose_during_pregnancy ilike '%HIV%';
```

8.syphilis_1tri

Replaced not_applicable with null and changed data type to integer. Also, where type_of_disease_diagnose_during_pregnancy is Syphilis, changed the value of this column to 1.

Query executed:

```
update public.fetal_development_risk
set syphilis_1tri = null
where syphilis_1tri = 'not_applicable';

 ALTER TABLE fetal_development_risk
 ALTER COLUMN syphilis_1tri TYPE integer
 USING syphilis_1tri::integer;

 update fetal_development_risk fd
```

```
 set syphilis_1tri =1
from hospitalization_labor hl
where fd.case_id = hl.case_id
and hl.disease_diagnose_during_pregnancy ilike '%syphilis%';
```

9.c_hepatitis_1tri

Replaced not_applicable with null and changed data type to integer. Also, where type_of_disease_diagnose_during_pregnancy is Hepatitis C, changed the value of this column to 1.

Query executed:

```
update public.fetal_development_risk
set c_hepatitis_1tri = null
where c_hepatitis_1tri = 'not_applicable';

 ALTER TABLE public.fetal_development_risk
 ALTER COLUMN c_hepatitis_1tri TYPE integer
 USING c_hepatitis_1tri::integer;

 update fetal_development_risk fd
 set c_hepatitis_1tri = 1
from hospitalization_labor hl
where fd.case_id = hl.case_id
and hl.disease_diagnose_during_pregnancy like '%hepatitis c%';
```

10 & 11.hospital_systolic_blood_pressure and hospital_diastolic_blood_pressure

Case_id = 125 changed not_applicable to null
Case_id in (14,26,42,64,65,67,70,119,121,122,195,205,212,218,85,87,112,113,134, 143,151) values of DBP and SBP were reversed.
Data Type of both columns changed to integer.

Query executed:

```
UPDATE public.hospitalization_labor
SET hospital_systolic_blood_pressure = CASE WHEN
hospital_systolic_blood_pressure= 'not_applicable' THEN null ELSE
hospital_systolic_blood_pressure END,
   hospital_diastolic_blood_pressure = CASE WHEN
hospital_diastolic_blood_pressure= 'not_applicable' THEN null ELSE
hospital_diastolic_blood_pressure END
WHERE hospital_systolic_blood_pressure= 'not_applicable' OR
hospital_diastolic_blood_pressure= 'not_applicable';

ALTER TABLE hospitalization_labor
ALTER COLUMN hospital_systolic_blood_pressure SET DATA TYPE
INTEGER USING hospital_systolic_blood_pressure::INTEGER,
ALTER COLUMN hospital_diastolic_blood_pressure SET DATA TYPE
INTEGER USING hospital_diastolic_blood_pressure::INTEGER;

UPDATE public.hospitalization_labor
SET hospital_systolic_blood_pressure = CASE WHEN
hospital_systolic_blood_pressure< hospital_diastolic_blood_pressure
   THEN hospital_diastolic_blood_pressure ELSE
hospital_systolic_blood_pressure
        END,
        hospital_diastolic_blood_pressure = CASE WHEN
hospital_systolic_blood_pressure< hospital_diastolic_blood_pressure
        THEN hospital_systolic_blood_pressure ELSE
hospital_diastolic_blood_pressure
        END
WHERE      hospital_systolic_blood_pressure<
hospital_diastolic_blood_pressure;
```

Table name - fetal_development_risk
Column name: diabetes_mellitus_treatment

Changes made : Updated the diabetes_mellitus_treatment column as 0 - no medicines, 1 - medicine , 2 - diet and 'not_applicable' to null.

QUERY:

```
UPDATE public.fetal_development_risk
SET diabetes_mellitus_treatment = CASE
WHEN diabetes_mellitus_treatment = '0' THEN 'no medicines'
WHEN diabetes_mellitus_treatment = '1' THEN 'medicines'
WHEN diabetes_mellitus_treatment = '2' THEN 'diet'
WHEN diabetes_mellitus_treatment = 'not_applicable' THEN NULL
END;
```

Table name - previous_pregnancy
Column name: miscarriage

Changes made : updated miscarriage value to 1 when miscarriage = 2 and miscarriage = 3

QUERY:

```
UPDATE public.previous_pregnancy
SET miscarriage = CASE
WHEN miscarriage = 2 THEN 1
WHEN miscarriage = 3 THEN 1
ELSE miscarriage
END;
```

Table name - bmi_metrics
Column name: bmi_according_who

Changes made : Dropped the Corrupted Column and Created new column bmi_according_who and Updated 'bmi_according_who' value 0 - under weight, 1 - normal weight, 2 - over weight and 3 - obese and 'not_applicable' to null.

QUERY:

```
 ALTER TABLE bmi_metrics DROP COLUMN bmi_according_who;
SELECT * FROM bmi_metrics;

ALTER TABLE public.bmi_metrics
ADD COLUMN bmi_according_who TEXT;

Update bmi_according_who column values from maternal_health table---
UPDATE bmi_metrics AS Tab1
SET bmi_according_who =
        (SELECT bmi_according_who FROM maternal_health AS Tab2
        WHERE Tab1.case_id = Tab2.case_id);

UPDATE bmi_metrics
SET bmi_according_who =
 CASE
      WHEN bmi_according_who = '0' THEN 'Underweight'
      WHEN bmi_according_who = '1' THEN 'Normal'
      WHEN bmi_according_who = '2' THEN 'Overweight'
      WHEN bmi_according_who = '3' THEN 'Obese'
      ELSE NULL
  END;
```

Table name - bmi_metrics
Column name:current_bmi_who_category

Changes made :Created new column 'current_bmi_who_category' and Updated as 0 - under weight, 1 - normal weight, 2 - over weight and 3 - obese and 'not_applicable' to null

QUERY:

```
ALTER TABLE public.bmi_metrics
ADD COLUMN current_bmi_who_category TEXT;
UPDATE public.bmi_metrics
SET current_bmi_who_category = CASE
```

```
WHEN CAST(current_bmi_according_who AS INTEGER) = 0 THEN 'Under
weight'
WHEN CAST(current_bmi_according_who AS INTEGER) = 1 THEN 'Normal
weight'
WHEN CAST(current_bmi_according_who AS INTEGER)= 2 THEN 'Over
weight'
  WHEN CAST(current_bmi_according_who AS INTEGER) = 3 THEN 'Obese'
  ELSE NULL
END;
```

Table name - hospitalization_labor
Columnname:prepartum_bmi
,prepartum_bmi_who_category,prepartum_maternal_height

Changes made :Added new column 'prepartum_bmi' and 'prepartum_bmi_who_category' and Renamed 'prepartum_maternal_heigh' to 'prepartum_maternal_height' and Updated 'prepartum_bmi' column using bmi calculation with 'prepartum_maternal_weight' and 'prepartum_maternal_height' columns. Updated 'prepartum_bmi_who_category' column using 'prepartum_bmi' column WHO ranges.

QUERY:

```
 ALTER TABLE hospitalization_labor
ADD COLUMN prepartum_bmi DECIMAL;

ALTER TABLE hospitalization_labor
ADD COLUMN prepartum_bmi_who_category TEXT;

ALTER TABLE hospitalization_labor
RENAME COLUMN prepartum_maternal_heigh TO
prepartum_maternal_height;

UPDATE hospitalization_labor
SET prepartum_bmi = ROUND(
(prepartum_maternal_weight::numeric /
```

```
(prepartum_maternal_height::numeric *
prepartum_maternal_height::numeric)), 2)
WHERE prepartum_maternal_weight ~ '^\d+(\.\d+)?$'
AND prepartum_maternal_height ~ '^\d+(\.\d+)?$';

UPDATE hospitalization_labor
SET prepartum_bmi_who_category = CASE
    WHEN prepartum_bmi < 18.5 THEN 'Underweight'
    WHEN prepartum_bmi BETWEEN 18.5 AND 24.9 THEN 'Normal
weight'
    WHEN prepartum_bmi BETWEEN 25 AND 29.9 THEN 'Overweight'
    WHEN prepartum_bmi >= 30 THEN 'Obese'
    ELSE NULL
END;
```

Table name - hospitalization_labor
Columnname: delivery_mode

Changes made : Updated all the values having 12 in range to 5 using Update statement & set operator and Altered delivery_mode Column.

QUERY:

```
UPDATE hospitalization_labor SET delivery_mode= '5' WHERE
delivery_mode = '12';

ALTER TABLE hospitalization_labor
 ALTER COLUMN delivery_mode TYPE TEXT USING delivery_mode::TEXT;
UPDATE hospitalization_labor
SET delivery_mode = CASE
  WHEN delivery_mode = '1' THEN 'vaginal'
  WHEN delivery_mode = '2' THEN 'vaginal forcipe'
  WHEN delivery_mode = '3' THEN 'miscarriage with curettage'
  WHEN delivery_mode = '4' THEN 'miscarriage without curettage'
  WHEN delivery_mode = '5' THEN 'cesarean section'
  WHEN delivery_mode = '6' THEN 'cesarean by jeopardy'
  WHEN delivery_mode = '7' THEN 'vaginal with episiotomy'
  WHEN delivery_mode = '8' THEN 'vaginal without episiotomy'
```

```
   WHEN delivery_mode = '9' THEN 'vaginal with episiotomy plus forcipe'
ELSE delivery_mode
END;
```

Table name - fetal_development_risk table
Columnname: GESTATIONAL_DIABETES_MELLITUS

Changes made : updated query to change g_d_m = 0 when c_d = 1 in fetal_development_risk table.

QUERY:

```
 UPDATE FETAL_DEVELOPMENT_RISK
SET GESTATIONAL_DIABETES_MELLITUS = 0
WHERE CHRONIC_DIABETES = 1;
```

Table name - hospitalization_labor
Columnname: disease_diagnose_during_pregnancy

Changes made : Updated 'not_applicable,',,'not_applicable+CX20','no_answer' and '0' to null and replaced 'HAS' to Hypertension,'ITU' to 'UTI,etc.'
Updated query to change the d_d_d_p to add 'DM' when c_d = '1' in hospitalization_labor and Concatenated 'DM' with existing values.

QUERY 1:

```
UPDATE hospitalization_labor SET disease_diagnose_during_pregnancy =
null
WHEREdisease_diagnose_during_pregnancy
IN('not_applicable','not_applicable+CX20','no_answer','0');

 UPDATE hospitalization_labor
SET disease_diagnose_during_pregnancy = CASE
WHEN disease_diagnose_during_pregnancy = 'Has' THEN 'Hypertension'
WHEN disease_diagnose_during_pregnancy = 'itu' THEN 'UTI'
WHEN disease_diagnose_during_pregnancy = 'ITU' THEN 'UTI'
```

```
        WHEN disease_diagnose_during_pregnancy='hepatitis b and ITU' THEN
        'hepatitis b and UTI'
        WHEN disease_diagnose_during_pregnancy = 'HAS na baixa hospitalar'
        THEN 'Hypertension'
        WHEN disease_diagnose_during_pregnancy = 'bronchitis, itu' THEN
        'bronchitis, UTI'
        WHEN disease_diagnose_during_pregnancy = 'HAS na baixa hospitalar'
        THEN 'Hypertension'
        WHEN disease_diagnose_during_pregnancy = 'bronchitis, itu' THEN
        'bronchitis, UTI'
        WHEN disease_diagnose_during_pregnancy = 'asthma' THEN 'Asthma'
        WHEN disease_diagnose_during_pregnancy = 'depression' THEN
        'Depression'
        WHEN disease_diagnose_during_pregnancy = 'Has + DMG' THEN
        'Hypertension + DMG'
        WHENdisease_diagnose_during_pregnancy = 'Has secundária' THEN
        'Hypertension'
        WHEN disease_diagnose_during_pregnancy = 'Pre-eclampsia and has
        gestational' THEN 'Pre-eclampsia and Hypertension gestational'
         WHEN disease_diagnose_during_pregnancy = 'HAS' THEN 'Hypertension'
        WHEN disease_diagnose_during_pregnancy = 'has' THEN 'Hypertension'
        WHEN disease_diagnose_during_pregnancy = 'HAS +DMG' THEN
        'Hypertension +DMG'
        WHEN disease_diagnose_during_pregnancy = 'bronchitis itu' THEN
        'bronchitis UTI'
        WHEN disease_diagnose_during_pregnancy = 'depression + ITU' THEN
        'depression + UTI'
        WHEN disease_diagnose_during_pregnancy = 'Strepto + ITU' THEN 'Strepto
        + UTI'
        WHEN disease_diagnose_during_pregnancy = 'Cognitive deficit -
        depression + HAS Gestation' THEN 'Cognitive deficit - depression +
        Hypertension Gestation'
        ELSE disease_diagnose_during_pregnancy
END;
```

QUERY 2:

```
UPDATE hospitalization_labor
SET disease_diagnose_during_pregnancy = 'DM'
WHERE case_id in (SELECT A.case_id  FROM hospitalization_labor A
INNER JOIN fetal_development_risk B ON A.case_id = B.case_id
WHERE B.chronic_diabetes = 1 and disease_diagnose_during_pregnancy is
null);
```

QUERY 3:

```
UPDATE hospitalization_labor
SET disease_diagnose_during_pregnancy =
disease_diagnose_during_pregnancy || ' + ' || 'DM'
WHERE case_id in (SELECT A.case_id  FROM hospitalization_labor A
INNER JOIN fetal_development_risk B ON A.case_id = B.case_id
WHERE B.chronic_diabetes = 1 and disease_diagnose_during_pregnancy !=
'DM');
```

Table name: Bmi_metrics

---Replaced not_applicable by NULL

```
UPDATE public.bmi_metrics
SET current_maternal_weight_1st_tri = NULL
WHERE current_maternal_weight_1st_tri = 'not_applicable';

UPDATE public.bmi_metrics
SET current_maternal_weight_2nd_tri = NULL
WHERE current_maternal_weight_2nd_tri = 'not_applicable';

UPDATE public.bmi_metrics
SET current_maternal_weight_3rd_tri = NULL
WHERE current_maternal_weight_3rd_tri = 'not_applicable';

UPDATE public.bmi_metrics
SET  prepregnant_weight= NULL
WHERE  prepregnant_weight= 'no_answer';

UPDATE public.bmi_metrics
```

```
SET prepregnant_bmi = NULL
WHERE prepregnant_bmi = 'not_applicable';
```

---Changed Data Types

```
ALTER COLUMN public.bmi_metrics
ALTER COLUMN current_maternal_weight_1st_tri type numeric using
current_maternal_weight_1st_tri::NUMERIC(10,2),
ALTER COLUMN current_maternal_weight_2nd_tri type numeric using
current_maternal_weight_2nd_tri::NUMERIC(10,2),
ALTER COLUMN current_maternal_weight_3rd_tri type numeric using
current_maternal_weight_3rd_tri::NUMERIC(10,2),
ALTER COLUMN prepregnant_weight type numeric using
prepregnant_weight::NUMERIC(10,1),
ALTER COLUMN prepregnant_bmi type numeric using
prepregnant_bmi::NUMERIC(10,2);
```

---Updated current_maternal_weight_3rd_tri Case_id=237 to 99.9 from 999 as it seems a typo.

```
UPDATE public.bmi_metrics
 SET current_maternal_weight_3rd_tri = '99.9'
 WHERE case_id = '237';
```

Table name: labs

---Replaced not_applicable by NULL

```
UPDATE public.labs
SET second_trimester_hematocrit = NULL
WHERE second_trimester_hematocrit = 'not_applicable';

UPDATE public.labs
SET third_trimester_hematocrit = NULL
WHERE third_trimester_hematocrit = 'not_applicable';

UPDATE public.labs
SET second_trimester_hemoglobin = NULL
WHERE second_trimester_hemoglobin = 'not_applicable';

UPDATE public.labs
```

```
SET  second_tri_fasting_blood_glucose= NULL
WHERE second_tri_fasting_blood_glucose = 'not_applicable';

UPDATE public.labs
SET  third_tri_fasting_blood_glucose= NULL
WHERE third_tri_fasting_blood_glucose = 'not_applicable';

UPDATE public.labs
SET  "1st_hour_ogtt75_1st_tri"= NULL
WHERE "1st_hour_ogtt75_1st_tri" = 'not_applicable';

UPDATE public.labs
SET "1st_hour_ogtt75_2tri" = NULL
WHERE "1st_hour_ogtt75_2tri" = 'not_applicable';

UPDATE public.labs
SET  "1st_hour_ogtt75_3tri"= NULL
WHERE "1st_hour_ogtt75_3tri" = 'not_applicable';

UPDATE public.labs
SET "2nd_hour_ogtt_1tri" = NULL
WHERE "2nd_hour_ogtt_1tri" = 'not_applicable';

UPDATE public.labs
SET "2nd_hour_ogtt75_2tri" = NULL
WHERE  "2nd_hour_ogtt75_2tri"= 'not_applicable';

UPDATE public.labs
SET "2nd_hour_ogtt_3tri" = NULL
WHERE "2nd_hour_ogtt_3tri" = 'not_applicable';

UPDATE public.labs
SET right_systolic_blood_pressure = NULL
WHERE right_systolic_blood_pressure = 'not_applicable';

UPDATE public.labs
SET right_diastolic_blood_pressure = NULL
WHERE  right_diastolic_blood_pressure= 'not_applicable';

UPDATE public.labs
```

```
SET  left_systolic_blood_pressure= NULL
WHERE left_systolic_blood_pressure = 'not_applicable';

UPDATE public.labs
SET  left_diastolic_blood_pressure= NULL
WHERE left_diastolic_blood_pressure= 'not_applicable';
```

---Changed Data Types

```
ALTER TABLE PUBLIC.LABS
ALTER COLUMN second_trimester_hematocrit TYPE double precision USING
second_trimester_hematocrit::double precision,
ALTER COLUMN third_trimester_hematocrit TYPE double precision USING
third_trimester_hematocrit::double precision,
ALTER COLUMN second_trimester_hemoglobin TYPE double precision USING
second_trimester_hemoglobin::double precision,
ALTER COLUMN second_tri_fasting_blood_glucose TYPE double precision USING
second_tri_fasting_blood_glucose::integer,
ALTER COLUMN third_tri_fasting_blood_glucose TYPE integer USING
third_tri_fasting_blood_glucose::integer,
ALTER COLUMN "1st_hour_ogtt75_1st_tri" TYPE integer USING
"1st_hour_ogtt75_1st_tri"::integer,
ALTER COLUMN "1st_hour_ogtt75_2tri" TYPE integer USING
"1st_hour_ogtt75_2tri"::integer,
ALTER COLUMN "1st_hour_ogtt75_3tri" TYPE integer USING
"1st_hour_ogtt75_3tri"::integer,
ALTER COLUMN "2nd_hour_ogtt_1tri" TYPE integer USING
"2nd_hour_ogtt_1tri"::integer,
ALTER COLUMN "2nd_hour_ogtt75_2tri" TYPE integer USING
"2nd_hour_ogtt75_2tri"::integer,
ALTER COLUMN "2nd_hour_ogtt_3tri" TYPE integer USING
"2nd_hour_ogtt_3tri"::integer,
ALTER COLUMN right_systolic_blood_pressure TYPE integer USING
right_systolic_blood_pressure::integer,
ALTER COLUMN left_systolic_blood_pressure TYPE integer USING
left_systolic_blood_pressure::integer,
ALTER COLUMN right_diastolic_blood_pressure TYPE integer USING
right_diastolic_blood_pressure::integer,
ALTER COLUMN left_diastolic_blood_pressure TYPE integer USING
left_diastolic_blood_pressure::integer;
```

--Created New Column

```
ALTER TABLE public.labs
	ADD COLUMN mean_systolic_blood_pressure integer;
```

-- Updated The New Column By Taking Mean Of Right Systolic And Left Systolic

```
UPDATE public.labs
SET mean_systolic_blood_pressure = ROUND((right_systolic_blood_pressure +
left_systolic_blood_pressure) / 2, 0);
```

--Created New Column

```
ALTER TABLE public.labs
	ADD COLUMN mean_diastolic_blood_pressure integer;
```

-- Updated The New Column With The Values By Taking Mean Of Right Diastolic And Left Diastolic

```
UPDATE public.labs
SET mean_diastolic_blood_pressure = ROUND((right_diastolic_blood_pressure +
left_diastolic_blood_pressure) / 2, 0);
```

Table name: new_born_details

---Replacing not_applicable to NULL

```
UPDATE public.new_born_details
SET newborn_height = NULL
WHERE newborn_height IN ('not_applicable');

UPDATE public.new_born_details
SET newborn_head_circumference = NULL
WHERE newborn_head_circumference IN ('not_applicable');
```

-----Changing Data Types

```
ALTER TABLE public.new_born_details
ALTER COLUMN expected_weight_for_the_newborn TYPE double precision USING
expected_weight_for_the_newborn::double precision;

ALTER TABLE public.new_born_details
ALTER COLUMN newborn_weight TYPE double precision USING
newborn_weight::double precision ;
```

```
ALTER TABLE public.new_born_details
ALTER COLUMN newborn_height TYPE double precision USING newborn_height::
double precision;

ALTER TABLE public.new_born_details
ALTER COLUMN newborn_head_circumference TYPE double precision USING
newborn_head_circumference :: double precision
```

Table name: fetal_development_risk

-------Replacing not_applicable & no_answer to NULL

```
UPDATE fetal_development_risk
SET tobacco_use_in_months = NULL
WHERE tobacco_use_in_months IN ('not_applicable', 'no_answer');

UPDATE fetal_development_risk
SET tobacco_quantity_by_day = NULL
WHERE tobacco_quantity_by_day IN ('not_applicable', 'no_answer');

UPDATE fetal_development_risk
SET alcohol_quantity_milliliters = NULL
WHERE alcohol_quantity_milliliters IN ('not_applicable', 'no_answer');

UPDATE fetal_development_risk
SET drugs_years_use = NULL
WHERE drugs_years_use IN ('not_applicable', 'no_answer');

UPDATE fetal_development_risk
SET drugs_during_pregnancy = NULL
WHERE drugs_during_pregnancy IN ('not_applicable', 'no_answer');

UPDATE fetal_development_risk
SET chronic_diabetes = NULL
WHERE chronic_diabetes IN ('not_applicable', 'no_answer');

UPDATE fetal_development_risk
SET chronic_diseases = NULL
WHERE chronic_diseases IN ('not_applicable', 'no_answer');
```

```
UPDATE fetal_development_risk
SET hypertension_past_treatment = NULL
WHERE hypertension_past_treatment IN ('not_applicable', 'no_answer');

UPDATE fetal_development_risk
SET diabetes_mellitus_disease_gap = NULL
WHERE diabetes_mellitus_disease_gap IN ('not_applicable', 'no_answer');
```

-----Changing Data Types

```
ALTER TABLE fetal_development_risk
ALTER COLUMN tobacco_use_in_months TYPE double precision USING
tobacco_use_in_months::double precision;

ALTER TABLE fetal_development_risk
ALTER COLUMN tobacco_quantity_by_day TYPE double precision USING
tobacco_quantity_by_day::double precision;

ALTER TABLE fetal_development_risk
ALTER COLUMN alcohol_quantity_milliliters TYPE integer USING
alcohol_quantity_milliliters::integer;

ALTER TABLE fetal_development_risk
ALTER COLUMN drugs_years_use TYPE integer USING drugs_years_use::integer;

ALTER TABLE fetal_development_risk
ALTER COLUMN drugs_during_pregnancy TYPE integer USING
drugs_during_pregnancy::integer;

ALTER TABLE fetal_development_risk
ALTER COLUMN chronic_diabetes TYPE integer USING chronic_diabetes::integer;

ALTER TABLE fetal_development_risk
ALTER COLUMN chronic_diseases TYPE integer USING chronic_diseases::integer;

ALTER TABLE fetal_development_risk
ALTER COLUMN hypertension_past_treatment TYPE integer USING
hypertension_past_treatment::integer;

ALTER TABLE fetal_development_risk
```

```
ALTER COLUMN diabetes_mellitus_disease_gap TYPE integer USING
diabetes_mellitus_disease_gap::integer;
-----------------------------------------------------------------------------------------
```

Table name: public.previous_pregnancy

-------Replacing not_applicable & no_answer to NULL

```
Update public.previous_pregnancy
Set past_newborn_1_weight = NULL
Where past_newborn_1_weight in ('not_applicable','no_answer') ;

Update public.previous_pregnancy
Set gestational_age_past_newborn_1 = NULL
Where gestational_age_past_newborn_1 in ('not_applicable','no_answer');

Update public.previous_pregnancy
Set past_newborn_2_weight = NULL
Where past_newborn_2_weight in ('not_applicable','no_answer');

Update public.previous_pregnancy
Set gestational_age_past_newborn_2 = NULL
Where gestational_age_past_newborn_2 in ('not_applicable','no_answer');

Update public.previous_pregnancy
Set past_newborn_3_weight = NULL
Where past_newborn_3_weight in ('not_applicable','no_answer');

Update public.previous_pregnancy
Set gestational_age_past_newborn_3 = NULL
Where gestational_age_past_newborn_3 in ('not_applicable','no_answer');

Update public.previous_pregnancy
Set past_newborn_4_weight = NULL
Where past_newborn_4_weight in ('not_applicable','no_answer');

Update public.previous_pregnancy
Set gestational_age_past_4_newborn = NULL
```

Where gestational_age_past_4_newborn in ('not_applicable','no_answer');

-----Changing Data Types

ALTER TABLE public.previous_pregnancy
ALTER COLUMN past_newborn_1_weight TYPE integer USING
past_newborn_1_weight::integer;

ALTER TABLE public.previous_pregnancy
ALTER COLUMN gestational_age_past_newborn_1 TYPE integer USING
gestational_age_past_newborn_1::integer;

ALTER TABLE public.previous_pregnancy
ALTER COLUMN past_newborn_2_weight TYPE integer USING
past_newborn_2_weight::integer;

ALTER TABLE public.previous_pregnancy
ALTER COLUMN gestational_age_past_newborn_2 TYPE integer USING
gestational_age_past_newborn_2::integer;

ALTER TABLE public.previous_pregnancy
ALTER COLUMN past_newborn_3_weight TYPE integer USING
past_newborn_3_weight::integer;

ALTER TABLE public.previous_pregnancy
ALTER COLUMN gestational_age_past_newborn_3 TYPE integer USING
gestational_age_past_newborn_3::integer;

ALTER TABLE public.previous_pregnancy
ALTER COLUMN past_newborn_4_weight TYPE integer USING
past_newborn_4_weight::integer;

ALTER TABLE public.previous_pregnancy
ALTER COLUMN gestational_age_past_4_newborn TYPE integer USING
gestational_age_past_4_newborn::integer;

Table name: public.hospitalization_labor

----Replacing not_applicable & no_answer to NULL

UPDATE public.hospitalization_labor

```
SET prepartum_maternal_weight = NULL
WHERE prepartum_maternal_weight ='not_applicable';

UPDATE public.hospitalization_labor
SET prepartum_maternal_height = NULL
WHERE prepartum_maternal_height ='not_applicable';

UPDATE public.hospitalization_labor
SET cesarean_section_reason = NULL
WHERE cesarean_section_reason IN('not_applicable','no_answer');
```

-----Changing Data Types

```
ALTER TABLE public.hospitalization_labor
ALTER COLUMN prepartum_maternal_weight TYPE numeric USING
prepartum_maternal_weight::numeric(10,2);

ALTER TABLE public.hospitalization_labor
ALTER COLUMN prepartum_maternal_height TYPE numeric USING
prepartum_maternal_height::numeric(10,2);

ALTER TABLE public.hospitalization_labor
ALTER COLUMN cesarean_section_reason TYPE text USING
cesarean_section_reason::text;

ALTER TABLE public.hospitalization_labor
ALTER COLUMN number_prenatal_appointments TYPE integer USING
number_prenatal_appointments::integer;
```

Table name: ultrasound_results

--CREATING NEW COLUMN

```
ALTER TABLE ULTRASOUND_RESULTS
ADD COLUMN PERIUMBILICAL_VFT_SFT_RATIO NUMERIC(10,2);
```

-- UPDATING THE NEW COLUMN WITH THE VALUES

```
UPDATE ULTRASOUND_RESULTS
 SET
 PERIUMBILICAL_VFT_SFT_RATIO = PERIUMBILICAL_VISCERAL_FAT /
PERIUMBILICAL_SUBCUTANOUS_FAT;
```

--CREATING NEW COLUMN

```
ALTER TABLE ULTRASOUND_RESULTS
ADD COLUMN PREPERITONEAL_VFT_SFT_RATIO NUMERIC(10,2);
```

-- UPDATING THE NEW COLUMN WITH THE VALUES

```
UPDATE ULTRASOUND_RESULTS
 SET
 PREPERITONEAL_VFT_SFT_RATIO = PREPERITONEAL_VISCERAL_FAT /
PREPERITONEAL_SUBCUTANEOUS_FAT;
```

---Replaced not_applicable by NULL

```
UPDATE public.ultrasound_results
SET fetal_weight_at_ultrasound = NULL
WHERE fetal_weight_at_ultrasound= 'not_applicable';

UPDATE ultrasound_results
SET weight_fetal_percentile = NULL
WHERE weight_fetal_percentile= 'not_applicable';
```

---Changing data types

```
ALTER TABLE PUBLIC.ULTRASOUND_RESULTS
ALTER COLUMN gestational_age_at_inclusion TYPE NUMERIC(10, 0);

ALTER TABLE PUBLIC.ULTRASOUND_RESULTS
ALTER COLUMN fetal_weight_at_ultrasound TYPE Integer USING
fetal_weight_at_ultrasound::integer;
```

--CREATING NEW COLUMN weight_percentile to recalculate the percentiles based on gestational_age_at_inclusion and fetal_weight_at_ultrasound

```
ALTER TABLE ultrasound_results ADD COLUMN weight_percentile INTEGER;
```

---Updating the values in the new column weight_percentile based on the reference table in this link
https://www.medhealthtv.com/blog/blogs/item/89-small-for-gestation

- - - - -Used this python script to write the sql query

```
# Define the percentile ranges for each gestational age
data = {
    14: [70, 73, 78, 83, 90, 98, 104, 109, 113],
    15: [89, 93, 99, 106, 114, 124, 132, 138, 144],
    16: [113, 117, 124, 133, 144, 155, 166, 174, 181],
    17: [141, 146, 154, 165, 177, 190, 203, 217, 225],
    18: [174, 181, 192, 206, 222, 239, 255, 268, 278],
    19: [214, 223, 235, 252, 272, 292, 313, 328, 340],
    20: [260, 271, 286, 307, 330, 355, 380, 399, 413],
    21: [314, 327, 345, 370, 398, 428, 458, 481, 497],
    22: [375, 392, 412, 443, 476, 512, 548, 575, 595],
    23: [445, 465, 489, 525, 565, 608, 650, 682, 705],
    24: [523, 548, 576, 618, 665, 715, 765, 803, 830],
    25: [611, 641, 673, 723, 778, 838, 894, 938, 970],
    26: [707, 743, 780, 838, 902, 971, 1038, 1087, 1125],
    27: [813, 855, 898, 964, 1039, 1118, 1196, 1251, 1295],
    28: [929, 977, 1026, 1102, 1189, 1279, 1368, 1429, 1481],
    29: [1053, 1108, 1165, 1251, 1350, 1453, 1554, 1622, 1682],
    30: [1185, 1247, 1313, 1410, 1523, 1640, 1753, 1828, 1897],
    31: [1326, 1394, 1470, 1580, 1707, 1838, 1964, 2046, 2126],
    32: [1473, 1548, 1635, 1757, 1901, 2047, 2187, 2276, 2367],
    33: [1626, 1708, 1807, 1942, 2103, 2266, 2419, 2516, 2619],
    34: [1785, 1872, 1985, 2134, 2312, 2492, 2659, 2764, 2880],
    35: [1948, 2038, 2167, 2330, 2527, 2723, 2904, 3018, 3148],
    36: [2113, 2205, 2352, 2531, 2745, 2959, 3153, 3277, 3422],
    37: [2280, 2372, 2537, 2733, 2966, 3195, 3403, 3538, 3697],
    38: [2446, 2536, 2723, 2935, 3186, 3432, 3652, 3799, 3973],
    39: [2612, 2696, 2905, 3135, 3403, 3664, 3897, 4058, 4247],
}

# Percentile labels
percentiles = [2, 5, 10, 25, 50, 75, 90, 95, 97.5]

# Start generating SQL
sql_output = []

for gest_age, weights in data.items():
    for i in range(len(weights) - 1):
        sql_output.append(
            f"WHEN gestational_age_at_inclusion = {gest_age} AND fetal_weight_at_ultrasound >= {weights[i]}
AND fetal_weight_at_ultrasound < {weights[i+1]} THEN {percentiles[i]}"
        )
    sql_output.append(
        f"WHEN gestational_age_at_inclusion = {gest_age} AND fetal_weight_at_ultrasound >= {weights[-1]}
THEN {percentiles[-1]}"
    )

# Print SQL code
print("\n".join(sql_output))
```

Query

```
UPDATE ultrasound_results
SET weight_percentile =
CASE
        -- Gestational Age 14 Weeks
        WHEN gestational_age_at_inclusion = 14 AND fetal_weight_at_ultrasound >= 70
AND fetal_weight_at_ultrasound < 73 THEN 2
        WHEN gestational_age_at_inclusion = 14 AND fetal_weight_at_ultrasound >= 73
AND fetal_weight_at_ultrasound < 78 THEN 5
        WHEN gestational_age_at_inclusion = 14 AND fetal_weight_at_ultrasound >= 78
AND fetal_weight_at_ultrasound < 83 THEN 10
        WHEN gestational_age_at_inclusion = 14 AND fetal_weight_at_ultrasound >= 83
AND fetal_weight_at_ultrasound < 90 THEN 25
        WHEN gestational_age_at_inclusion = 14 AND fetal_weight_at_ultrasound >= 90
AND fetal_weight_at_ultrasound < 98 THEN 50
        WHEN gestational_age_at_inclusion = 14 AND fetal_weight_at_ultrasound >= 98
AND fetal_weight_at_ultrasound < 104 THEN 75
        WHEN gestational_age_at_inclusion = 14 AND fetal_weight_at_ultrasound >=
104 AND fetal_weight_at_ultrasound < 109 THEN 90
        WHEN gestational_age_at_inclusion = 14 AND fetal_weight_at_ultrasound >=
109 AND fetal_weight_at_ultrasound < 113 THEN 95
        WHEN gestational_age_at_inclusion = 14 AND fetal_weight_at_ultrasound >=
113 THEN 97.5
        -- Gestational Age 15 Weeks
        WHEN gestational_age_at_inclusion = 15 AND fetal_weight_at_ultrasound >= 89
AND fetal_weight_at_ultrasound < 93 THEN 2
        WHEN gestational_age_at_inclusion = 15 AND fetal_weight_at_ultrasound >= 93
AND fetal_weight_at_ultrasound < 99 THEN 5
        WHEN gestational_age_at_inclusion = 15 AND fetal_weight_at_ultrasound >= 99
AND fetal_weight_at_ultrasound < 106 THEN 10
        WHEN gestational_age_at_inclusion = 15 AND fetal_weight_at_ultrasound >=
106 AND fetal_weight_at_ultrasound < 114 THEN 25
        WHEN gestational_age_at_inclusion = 15 AND fetal_weight_at_ultrasound >=
114 AND fetal_weight_at_ultrasound < 124 THEN 50
        WHEN gestational_age_at_inclusion = 15 AND fetal_weight_at_ultrasound >=
124 AND fetal_weight_at_ultrasound < 132 THEN 75
        WHEN gestational_age_at_inclusion = 15 AND fetal_weight_at_ultrasound >=
132 AND fetal_weight_at_ultrasound < 138 THEN 90
        WHEN gestational_age_at_inclusion = 15 AND fetal_weight_at_ultrasound >=
138 AND fetal_weight_at_ultrasound < 144 THEN 95
```

```
        WHEN gestational_age_at_inclusion = 15 AND fetal_weight_at_ultrasound >=
144 THEN 97.5
        -- Gestational Age 16 Weeks
        WHEN gestational_age_at_inclusion = 16 AND fetal_weight_at_ultrasound >=
113 AND fetal_weight_at_ultrasound < 117 THEN 2
        WHEN gestational_age_at_inclusion = 16 AND fetal_weight_at_ultrasound >=
117 AND fetal_weight_at_ultrasound < 124 THEN 5
        WHEN gestational_age_at_inclusion = 16 AND fetal_weight_at_ultrasound >=
124 AND fetal_weight_at_ultrasound < 133 THEN 10
        WHEN gestational_age_at_inclusion = 16 AND fetal_weight_at_ultrasound >=
133 AND fetal_weight_at_ultrasound < 144 THEN 25
        WHEN gestational_age_at_inclusion = 16 AND fetal_weight_at_ultrasound >=
144 AND fetal_weight_at_ultrasound < 155 THEN 50
        WHEN gestational_age_at_inclusion = 16 AND fetal_weight_at_ultrasound >=
155 AND fetal_weight_at_ultrasound < 166 THEN 75
        WHEN gestational_age_at_inclusion = 16 AND fetal_weight_at_ultrasound >=
166 AND fetal_weight_at_ultrasound < 174 THEN 90
        WHEN gestational_age_at_inclusion = 16 AND fetal_weight_at_ultrasound >=
174 AND fetal_weight_at_ultrasound < 181 THEN 95
        WHEN gestational_age_at_inclusion = 16 AND fetal_weight_at_ultrasound >=
181 THEN 97.5
        -- Gestational Age 17 Weeks
        WHEN gestational_age_at_inclusion = 17 AND fetal_weight_at_ultrasound >=
141 AND fetal_weight_at_ultrasound < 146 THEN 2
        WHEN gestational_age_at_inclusion = 17 AND fetal_weight_at_ultrasound >=
146 AND fetal_weight_at_ultrasound < 154 THEN 5
        WHEN gestational_age_at_inclusion = 17 AND fetal_weight_at_ultrasound >=
154 AND fetal_weight_at_ultrasound < 165 THEN 10
        WHEN gestational_age_at_inclusion = 17 AND fetal_weight_at_ultrasound >=
165 AND fetal_weight_at_ultrasound < 177 THEN 25
        WHEN gestational_age_at_inclusion = 17 AND fetal_weight_at_ultrasound >=
177 AND fetal_weight_at_ultrasound < 190 THEN 50
        WHEN gestational_age_at_inclusion = 17 AND fetal_weight_at_ultrasound >=
190 AND fetal_weight_at_ultrasound < 203 THEN 75
        WHEN gestational_age_at_inclusion = 17 AND fetal_weight_at_ultrasound >=
203 AND fetal_weight_at_ultrasound < 217 THEN 90
        WHEN gestational_age_at_inclusion = 17 AND fetal_weight_at_ultrasound >=
217 AND fetal_weight_at_ultrasound < 225 THEN 95
        WHEN gestational_age_at_inclusion = 17 AND fetal_weight_at_ultrasound >=
225 THEN 97.5
```

```
        -- Gestational Age 18 Weeks
        WHEN gestational_age_at_inclusion = 18 AND fetal_weight_at_ultrasound >=
174 AND fetal_weight_at_ultrasound < 181 THEN 2
        WHEN gestational_age_at_inclusion = 18 AND fetal_weight_at_ultrasound >=
181 AND fetal_weight_at_ultrasound < 192 THEN 5
        WHEN gestational_age_at_inclusion = 18 AND fetal_weight_at_ultrasound >=
192 AND fetal_weight_at_ultrasound < 206 THEN 10
        WHEN gestational_age_at_inclusion = 18 AND fetal_weight_at_ultrasound >=
206 AND fetal_weight_at_ultrasound < 222 THEN 25
        WHEN gestational_age_at_inclusion = 18 AND fetal_weight_at_ultrasound >=
222 AND fetal_weight_at_ultrasound < 239 THEN 50
        WHEN gestational_age_at_inclusion = 18 AND fetal_weight_at_ultrasound >=
239 AND fetal_weight_at_ultrasound < 255 THEN 75
        WHEN gestational_age_at_inclusion = 18 AND fetal_weight_at_ultrasound >=
255 AND fetal_weight_at_ultrasound < 268 THEN 90
        WHEN gestational_age_at_inclusion = 18 AND fetal_weight_at_ultrasound >=
268 AND fetal_weight_at_ultrasound < 278 THEN 95
        WHEN gestational_age_at_inclusion = 18 AND fetal_weight_at_ultrasound >=
278 THEN 97.5
        -- Gestational Age 19 Weeks
        WHEN gestational_age_at_inclusion = 19 AND fetal_weight_at_ultrasound >=
214 AND fetal_weight_at_ultrasound < 223 THEN 2
        WHEN gestational_age_at_inclusion = 19 AND fetal_weight_at_ultrasound >=
223 AND fetal_weight_at_ultrasound < 235 THEN 5
        WHEN gestational_age_at_inclusion = 19 AND fetal_weight_at_ultrasound >=
235 AND fetal_weight_at_ultrasound < 252 THEN 10
        WHEN gestational_age_at_inclusion = 19 AND fetal_weight_at_ultrasound >=
252 AND fetal_weight_at_ultrasound < 272 THEN 25
        WHEN gestational_age_at_inclusion = 19 AND fetal_weight_at_ultrasound >=
272 AND fetal_weight_at_ultrasound < 292 THEN 50
        WHEN gestational_age_at_inclusion = 19 AND fetal_weight_at_ultrasound >=
292 AND fetal_weight_at_ultrasound < 313 THEN 75
        WHEN gestational_age_at_inclusion = 19 AND fetal_weight_at_ultrasound >=
313 AND fetal_weight_at_ultrasound < 328 THEN 90
        WHEN gestational_age_at_inclusion = 19 AND fetal_weight_at_ultrasound >=
328 AND fetal_weight_at_ultrasound < 340 THEN 95
        WHEN gestational_age_at_inclusion = 19 AND fetal_weight_at_ultrasound >=
340 THEN 97.5
        -- Gestational Age 20 Weeks
```

```
        WHEN gestational_age_at_inclusion = 20 AND fetal_weight_at_ultrasound >=
260 AND fetal_weight_at_ultrasound < 271 THEN 2
        WHEN gestational_age_at_inclusion = 20 AND fetal_weight_at_ultrasound >=
271 AND fetal_weight_at_ultrasound < 286 THEN 5
        WHEN gestational_age_at_inclusion = 20 AND fetal_weight_at_ultrasound >=
286 AND fetal_weight_at_ultrasound < 307 THEN 10
        WHEN gestational_age_at_inclusion = 20 AND fetal_weight_at_ultrasound >=
307 AND fetal_weight_at_ultrasound < 330 THEN 25
        WHEN gestational_age_at_inclusion = 20 AND fetal_weight_at_ultrasound >=
330 AND fetal_weight_at_ultrasound < 355 THEN 50
        WHEN gestational_age_at_inclusion = 20 AND fetal_weight_at_ultrasound >=
355 AND fetal_weight_at_ultrasound < 380 THEN 75
        WHEN gestational_age_at_inclusion = 20 AND fetal_weight_at_ultrasound >=
380 AND fetal_weight_at_ultrasound < 399 THEN 90
        WHEN gestational_age_at_inclusion = 20 AND fetal_weight_at_ultrasound >=
399 AND fetal_weight_at_ultrasound < 413 THEN 95
        WHEN gestational_age_at_inclusion = 20 AND fetal_weight_at_ultrasound >=
413 THEN 97.5
        -- Gestational Age 21 Weeks
        WHEN gestational_age_at_inclusion = 21 AND fetal_weight_at_ultrasound >=
314 AND fetal_weight_at_ultrasound < 327 THEN 2
        WHEN gestational_age_at_inclusion = 21 AND fetal_weight_at_ultrasound >=
327 AND fetal_weight_at_ultrasound < 345 THEN 5
        WHEN gestational_age_at_inclusion = 21 AND fetal_weight_at_ultrasound >=
345 AND fetal_weight_at_ultrasound < 370 THEN 10
        WHEN gestational_age_at_inclusion = 21 AND fetal_weight_at_ultrasound >=
370 AND fetal_weight_at_ultrasound < 398 THEN 25
        WHEN gestational_age_at_inclusion = 21 AND fetal_weight_at_ultrasound >=
398 AND fetal_weight_at_ultrasound < 428 THEN 50
        WHEN gestational_age_at_inclusion = 21 AND fetal_weight_at_ultrasound >=
428 AND fetal_weight_at_ultrasound < 458 THEN 75
        WHEN gestational_age_at_inclusion = 21 AND fetal_weight_at_ultrasound >=
458 AND fetal_weight_at_ultrasound < 481 THEN 90
        WHEN gestational_age_at_inclusion = 21 AND fetal_weight_at_ultrasound >=
481 AND fetal_weight_at_ultrasound < 497 THEN 95
        WHEN gestational_age_at_inclusion = 21 AND fetal_weight_at_ultrasound >=
497 THEN 97.5
        -- Gestational Age 22 Weeks
        WHEN gestational_age_at_inclusion = 22 AND fetal_weight_at_ultrasound >=
375 AND fetal_weight_at_ultrasound < 392 THEN 2
```

```
        WHEN gestational_age_at_inclusion = 22 AND fetal_weight_at_ultrasound >=
392 AND fetal_weight_at_ultrasound < 412 THEN 5
        WHEN gestational_age_at_inclusion = 22 AND fetal_weight_at_ultrasound >=
412 AND fetal_weight_at_ultrasound < 443 THEN 10
        WHEN gestational_age_at_inclusion = 22 AND fetal_weight_at_ultrasound >=
443 AND fetal_weight_at_ultrasound < 476 THEN 25
        WHEN gestational_age_at_inclusion = 22 AND fetal_weight_at_ultrasound >=
476 AND fetal_weight_at_ultrasound < 512 THEN 50
        WHEN gestational_age_at_inclusion = 22 AND fetal_weight_at_ultrasound >=
512 AND fetal_weight_at_ultrasound < 548 THEN 75
        WHEN gestational_age_at_inclusion = 22 AND fetal_weight_at_ultrasound >=
548 AND fetal_weight_at_ultrasound < 575 THEN 90
        WHEN gestational_age_at_inclusion = 22 AND fetal_weight_at_ultrasound >=
575 AND fetal_weight_at_ultrasound < 595 THEN 95
        WHEN gestational_age_at_inclusion = 22 AND fetal_weight_at_ultrasound >=
595 THEN 97.5
        -- Gestational Age 23 Weeks
        WHEN gestational_age_at_inclusion = 23 AND fetal_weight_at_ultrasound >=
445 AND fetal_weight_at_ultrasound < 465 THEN 2
        WHEN gestational_age_at_inclusion = 23 AND fetal_weight_at_ultrasound >=
465 AND fetal_weight_at_ultrasound < 489 THEN 5
        WHEN gestational_age_at_inclusion = 23 AND fetal_weight_at_ultrasound >=
489 AND fetal_weight_at_ultrasound < 525 THEN 10
        WHEN gestational_age_at_inclusion = 23 AND fetal_weight_at_ultrasound >=
525 AND fetal_weight_at_ultrasound < 565 THEN 25
        WHEN gestational_age_at_inclusion = 23 AND fetal_weight_at_ultrasound >=
565 AND fetal_weight_at_ultrasound < 608 THEN 50
        WHEN gestational_age_at_inclusion = 23 AND fetal_weight_at_ultrasound >=
608 AND fetal_weight_at_ultrasound < 650 THEN 75
        WHEN gestational_age_at_inclusion = 23 AND fetal_weight_at_ultrasound >=
650 AND fetal_weight_at_ultrasound < 682 THEN 90
        WHEN gestational_age_at_inclusion = 23 AND fetal_weight_at_ultrasound >=
682 AND fetal_weight_at_ultrasound < 705 THEN 95
        WHEN gestational_age_at_inclusion = 23 AND fetal_weight_at_ultrasound >=
705 THEN 97.5
        -- Gestational Age 24 Weeks
        WHEN gestational_age_at_inclusion = 24 AND fetal_weight_at_ultrasound >=
523 AND fetal_weight_at_ultrasound < 548 THEN 2
        WHEN gestational_age_at_inclusion = 24 AND fetal_weight_at_ultrasound >=
548 AND fetal_weight_at_ultrasound < 576 THEN 5
```

```
        WHEN gestational_age_at_inclusion = 24 AND fetal_weight_at_ultrasound >=
576 AND fetal_weight_at_ultrasound < 618 THEN 10
        WHEN gestational_age_at_inclusion = 24 AND fetal_weight_at_ultrasound >=
618 AND fetal_weight_at_ultrasound < 665 THEN 25
        WHEN gestational_age_at_inclusion = 24 AND fetal_weight_at_ultrasound >=
665 AND fetal_weight_at_ultrasound < 715 THEN 50
        WHEN gestational_age_at_inclusion = 24 AND fetal_weight_at_ultrasound >=
715 AND fetal_weight_at_ultrasound < 765 THEN 75
        WHEN gestational_age_at_inclusion = 24 AND fetal_weight_at_ultrasound >=
765 AND fetal_weight_at_ultrasound < 803 THEN 90
        WHEN gestational_age_at_inclusion = 24 AND fetal_weight_at_ultrasound >=
803 AND fetal_weight_at_ultrasound < 830 THEN 95
        WHEN gestational_age_at_inclusion = 24 AND fetal_weight_at_ultrasound >=
830 THEN 97.5
        -- Gestational Age 25 Weeks
        WHEN gestational_age_at_inclusion = 25 AND fetal_weight_at_ultrasound >=
611 AND fetal_weight_at_ultrasound < 641 THEN 2
        WHEN gestational_age_at_inclusion = 25 AND fetal_weight_at_ultrasound >=
641 AND fetal_weight_at_ultrasound < 673 THEN 5
        WHEN gestational_age_at_inclusion = 25 AND fetal_weight_at_ultrasound >=
673 AND fetal_weight_at_ultrasound < 723 THEN 10
        WHEN gestational_age_at_inclusion = 25 AND fetal_weight_at_ultrasound >=
723 AND fetal_weight_at_ultrasound < 778 THEN 25
        WHEN gestational_age_at_inclusion = 25 AND fetal_weight_at_ultrasound >=
778 AND fetal_weight_at_ultrasound < 838 THEN 50
        WHEN gestational_age_at_inclusion = 25 AND fetal_weight_at_ultrasound >=
838 AND fetal_weight_at_ultrasound < 894 THEN 75
        WHEN gestational_age_at_inclusion = 25 AND fetal_weight_at_ultrasound >=
894 AND fetal_weight_at_ultrasound < 938 THEN 90
        WHEN gestational_age_at_inclusion = 25 AND fetal_weight_at_ultrasound >=
938 AND fetal_weight_at_ultrasound < 970 THEN 95
        WHEN gestational_age_at_inclusion = 25 AND fetal_weight_at_ultrasound >=
970 THEN 97.5
        -- Gestational Age 26 Weeks
        WHEN gestational_age_at_inclusion = 26 AND fetal_weight_at_ultrasound >=
707 AND fetal_weight_at_ultrasound < 743 THEN 2
        WHEN gestational_age_at_inclusion = 26 AND fetal_weight_at_ultrasound >=
743 AND fetal_weight_at_ultrasound < 780 THEN 5
        WHEN gestational_age_at_inclusion = 26 AND fetal_weight_at_ultrasound >=
780 AND fetal_weight_at_ultrasound < 838 THEN 10
```

```
        WHEN gestational_age_at_inclusion = 26 AND fetal_weight_at_ultrasound >=
838 AND fetal_weight_at_ultrasound < 902 THEN 25
        WHEN gestational_age_at_inclusion = 26 AND fetal_weight_at_ultrasound >=
902 AND fetal_weight_at_ultrasound < 971 THEN 50
        WHEN gestational_age_at_inclusion = 26 AND fetal_weight_at_ultrasound >=
971 AND fetal_weight_at_ultrasound < 1038 THEN 75
        WHEN gestational_age_at_inclusion = 26 AND fetal_weight_at_ultrasound >=
1038 AND fetal_weight_at_ultrasound < 1087 THEN 90
        WHEN gestational_age_at_inclusion = 26 AND fetal_weight_at_ultrasound >=
1087 AND fetal_weight_at_ultrasound < 1125 THEN 95
        WHEN gestational_age_at_inclusion = 26 AND fetal_weight_at_ultrasound >=
1125 THEN 97.5
        -- Gestational Age 27 Weeks
        WHEN gestational_age_at_inclusion = 27 AND fetal_weight_at_ultrasound >=
813 AND fetal_weight_at_ultrasound < 855 THEN 2
        WHEN gestational_age_at_inclusion = 27 AND fetal_weight_at_ultrasound >=
855 AND fetal_weight_at_ultrasound < 898 THEN 5
        WHEN gestational_age_at_inclusion = 27 AND fetal_weight_at_ultrasound >=
898 AND fetal_weight_at_ultrasound < 964 THEN 10
        WHEN gestational_age_at_inclusion = 27 AND fetal_weight_at_ultrasound >=
964 AND fetal_weight_at_ultrasound < 1039 THEN 25
        WHEN gestational_age_at_inclusion = 27 AND fetal_weight_at_ultrasound >=
1039 AND fetal_weight_at_ultrasound < 1118 THEN 50
        WHEN gestational_age_at_inclusion = 27 AND fetal_weight_at_ultrasound >=
1118 AND fetal_weight_at_ultrasound < 1196 THEN 75
        WHEN gestational_age_at_inclusion = 27 AND fetal_weight_at_ultrasound >=
1196 AND fetal_weight_at_ultrasound < 1251 THEN 90
        WHEN gestational_age_at_inclusion = 27 AND fetal_weight_at_ultrasound >=
1251 AND fetal_weight_at_ultrasound < 1295 THEN 95
        WHEN gestational_age_at_inclusion = 27 AND fetal_weight_at_ultrasound >=
1295 THEN 97.5
        -- Gestational Age 28 Weeks
        WHEN gestational_age_at_inclusion = 28 AND fetal_weight_at_ultrasound >=
929 AND fetal_weight_at_ultrasound < 977 THEN 2
        WHEN gestational_age_at_inclusion = 28 AND fetal_weight_at_ultrasound >=
977 AND fetal_weight_at_ultrasound < 1026 THEN 5
        WHEN gestational_age_at_inclusion = 28 AND fetal_weight_at_ultrasound >=
1026 AND fetal_weight_at_ultrasound < 1102 THEN 10
        WHEN gestational_age_at_inclusion = 28 AND fetal_weight_at_ultrasound >=
1102 AND fetal_weight_at_ultrasound < 1189 THEN 25
```

```
        WHEN gestational_age_at_inclusion = 28 AND fetal_weight_at_ultrasound >=
1189 AND fetal_weight_at_ultrasound < 1279 THEN 50
        WHEN gestational_age_at_inclusion = 28 AND fetal_weight_at_ultrasound >=
1279 AND fetal_weight_at_ultrasound < 1368 THEN 75
        WHEN gestational_age_at_inclusion = 28 AND fetal_weight_at_ultrasound >=
1368 AND fetal_weight_at_ultrasound < 1429 THEN 90
        WHEN gestational_age_at_inclusion = 28 AND fetal_weight_at_ultrasound >=
1429 AND fetal_weight_at_ultrasound < 1481 THEN 95
        WHEN gestational_age_at_inclusion = 28 AND fetal_weight_at_ultrasound >=
1481 THEN 97.5
        -- Gestational Age 29 Weeks
        WHEN gestational_age_at_inclusion = 29 AND fetal_weight_at_ultrasound >=
1053 AND fetal_weight_at_ultrasound < 1108 THEN 2
        WHEN gestational_age_at_inclusion = 29 AND fetal_weight_at_ultrasound >=
1108 AND fetal_weight_at_ultrasound < 1165 THEN 5
        WHEN gestational_age_at_inclusion = 29 AND fetal_weight_at_ultrasound >=
1165 AND fetal_weight_at_ultrasound < 1251 THEN 10
        WHEN gestational_age_at_inclusion = 29 AND fetal_weight_at_ultrasound >=
1251 AND fetal_weight_at_ultrasound < 1350 THEN 25
        WHEN gestational_age_at_inclusion = 29 AND fetal_weight_at_ultrasound >=
1350 AND fetal_weight_at_ultrasound < 1453 THEN 50
        WHEN gestational_age_at_inclusion = 29 AND fetal_weight_at_ultrasound >=
1453 AND fetal_weight_at_ultrasound < 1554 THEN 75
        WHEN gestational_age_at_inclusion = 29 AND fetal_weight_at_ultrasound >=
1554 AND fetal_weight_at_ultrasound < 1622 THEN 90
        WHEN gestational_age_at_inclusion = 29 AND fetal_weight_at_ultrasound >=
1622 AND fetal_weight_at_ultrasound < 1682 THEN 95
        WHEN gestational_age_at_inclusion = 29 AND fetal_weight_at_ultrasound >=
1682 THEN 97.5
        -- Gestational Age 30 Weeks
        WHEN gestational_age_at_inclusion = 30 AND fetal_weight_at_ultrasound >=
1185 AND fetal_weight_at_ultrasound < 1247 THEN 2
        WHEN gestational_age_at_inclusion = 30 AND fetal_weight_at_ultrasound >=
1247 AND fetal_weight_at_ultrasound < 1313 THEN 5
        WHEN gestational_age_at_inclusion = 30 AND fetal_weight_at_ultrasound >=
1313 AND fetal_weight_at_ultrasound < 1410 THEN 10
        WHEN gestational_age_at_inclusion = 30 AND fetal_weight_at_ultrasound >=
1410 AND fetal_weight_at_ultrasound < 1523 THEN 25
        WHEN gestational_age_at_inclusion = 30 AND fetal_weight_at_ultrasound >=
1523 AND fetal_weight_at_ultrasound < 1640 THEN 50
```

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        WHEN gestational_age_at_inclusion = 30 AND fetal_weight_at_ultrasound >=
1640 AND fetal_weight_at_ultrasound < 1753 THEN 75
        WHEN gestational_age_at_inclusion = 30 AND fetal_weight_at_ultrasound >=
1753 AND fetal_weight_at_ultrasound < 1828 THEN 90
        WHEN gestational_age_at_inclusion = 30 AND fetal_weight_at_ultrasound >=
1828 AND fetal_weight_at_ultrasound < 1897 THEN 95
        WHEN gestational_age_at_inclusion = 30 AND fetal_weight_at_ultrasound >=
1897 THEN 97.5
        -- Gestational Age 31 Weeks
        WHEN gestational_age_at_inclusion = 31 AND fetal_weight_at_ultrasound >=
1326 AND fetal_weight_at_ultrasound < 1394 THEN 2
        WHEN gestational_age_at_inclusion = 31 AND fetal_weight_at_ultrasound >=
1394 AND fetal_weight_at_ultrasound < 1470 THEN 5
        WHEN gestational_age_at_inclusion = 31 AND fetal_weight_at_ultrasound >=
1470 AND fetal_weight_at_ultrasound < 1580 THEN 10
        WHEN gestational_age_at_inclusion = 31 AND fetal_weight_at_ultrasound >=
1580 AND fetal_weight_at_ultrasound < 1707 THEN 25
        WHEN gestational_age_at_inclusion = 31 AND fetal_weight_at_ultrasound >=
1707 AND fetal_weight_at_ultrasound < 1838 THEN 50
        WHEN gestational_age_at_inclusion = 31 AND fetal_weight_at_ultrasound >=
1838 AND fetal_weight_at_ultrasound < 1964 THEN 75
        WHEN gestational_age_at_inclusion = 31 AND fetal_weight_at_ultrasound >=
1964 AND fetal_weight_at_ultrasound < 2046 THEN 90
        WHEN gestational_age_at_inclusion = 31 AND fetal_weight_at_ultrasound >=
2046 AND fetal_weight_at_ultrasound < 2126 THEN 95
        WHEN gestational_age_at_inclusion = 31 AND fetal_weight_at_ultrasound >=
2126 THEN 97.5
        -- Gestational Age 32 Weeks
        WHEN gestational_age_at_inclusion = 32 AND fetal_weight_at_ultrasound >=
1473 AND fetal_weight_at_ultrasound < 1548 THEN 2
        WHEN gestational_age_at_inclusion = 32 AND fetal_weight_at_ultrasound >=
1548 AND fetal_weight_at_ultrasound < 1635 THEN 5
        WHEN gestational_age_at_inclusion = 32 AND fetal_weight_at_ultrasound >=
1635 AND fetal_weight_at_ultrasound < 1757 THEN 10
        WHEN gestational_age_at_inclusion = 32 AND fetal_weight_at_ultrasound >=
1757 AND fetal_weight_at_ultrasound < 1901 THEN 25
        WHEN gestational_age_at_inclusion = 32 AND fetal_weight_at_ultrasound >=
1901 AND fetal_weight_at_ultrasound < 2047 THEN 50
        WHEN gestational_age_at_inclusion = 32 AND fetal_weight_at_ultrasound >=
2047 AND fetal_weight_at_ultrasound < 2187 THEN 75
```

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        WHEN gestational_age_at_inclusion = 32 AND fetal_weight_at_ultrasound >=
2187 AND fetal_weight_at_ultrasound < 2276 THEN 90
        WHEN gestational_age_at_inclusion = 32 AND fetal_weight_at_ultrasound >=
2276 AND fetal_weight_at_ultrasound < 2367 THEN 95
        WHEN gestational_age_at_inclusion = 32 AND fetal_weight_at_ultrasound >=
2367 THEN 97.5
        -- Gestational Age 33 Weeks
        WHEN gestational_age_at_inclusion = 33 AND fetal_weight_at_ultrasound >=
1626 AND fetal_weight_at_ultrasound < 1708 THEN 2
        WHEN gestational_age_at_inclusion = 33 AND fetal_weight_at_ultrasound >=
1708 AND fetal_weight_at_ultrasound < 1807 THEN 5
        WHEN gestational_age_at_inclusion = 33 AND fetal_weight_at_ultrasound >=
1807 AND fetal_weight_at_ultrasound < 1942 THEN 10
        WHEN gestational_age_at_inclusion = 33 AND fetal_weight_at_ultrasound >=
1942 AND fetal_weight_at_ultrasound < 2103 THEN 25
        WHEN gestational_age_at_inclusion = 33 AND fetal_weight_at_ultrasound >=
2103 AND fetal_weight_at_ultrasound < 2266 THEN 50
        WHEN gestational_age_at_inclusion = 33 AND fetal_weight_at_ultrasound >=
2266 AND fetal_weight_at_ultrasound < 2419 THEN 75
        WHEN gestational_age_at_inclusion = 33 AND fetal_weight_at_ultrasound >=
2419 AND fetal_weight_at_ultrasound < 2516 THEN 90
        WHEN gestational_age_at_inclusion = 33 AND fetal_weight_at_ultrasound >=
2516 AND fetal_weight_at_ultrasound < 2619 THEN 95
        WHEN gestational_age_at_inclusion = 33 AND fetal_weight_at_ultrasound >=
2619 THEN 97.5
        -- Gestational Age 34 Weeks
        WHEN gestational_age_at_inclusion = 34 AND fetal_weight_at_ultrasound >=
1785 AND fetal_weight_at_ultrasound < 1872 THEN 2
        WHEN gestational_age_at_inclusion = 34 AND fetal_weight_at_ultrasound >=
1872 AND fetal_weight_at_ultrasound < 1985 THEN 5
        WHEN gestational_age_at_inclusion = 34 AND fetal_weight_at_ultrasound >=
1985 AND fetal_weight_at_ultrasound < 2134 THEN 10
        WHEN gestational_age_at_inclusion = 34 AND fetal_weight_at_ultrasound >=
2134 AND fetal_weight_at_ultrasound < 2312 THEN 25
        WHEN gestational_age_at_inclusion = 34 AND fetal_weight_at_ultrasound >=
2312 AND fetal_weight_at_ultrasound < 2492 THEN 50
        WHEN gestational_age_at_inclusion = 34 AND fetal_weight_at_ultrasound >=
2492 AND fetal_weight_at_ultrasound < 2659 THEN 75
        WHEN gestational_age_at_inclusion = 34 AND fetal_weight_at_ultrasound >=
2659 AND fetal_weight_at_ultrasound < 2764 THEN 90
```

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        WHEN gestational_age_at_inclusion = 34 AND fetal_weight_at_ultrasound >=
2764 AND fetal_weight_at_ultrasound < 2880 THEN 95
        WHEN gestational_age_at_inclusion = 34 AND fetal_weight_at_ultrasound >=
2880 THEN 97.5
        -- Gestational Age 35 Weeks
        WHEN gestational_age_at_inclusion = 35 AND fetal_weight_at_ultrasound >=
1948 AND fetal_weight_at_ultrasound < 2038 THEN 2
        WHEN gestational_age_at_inclusion = 35 AND fetal_weight_at_ultrasound >=
2038 AND fetal_weight_at_ultrasound < 2167 THEN 5
        WHEN gestational_age_at_inclusion = 35 AND fetal_weight_at_ultrasound >=
2167 AND fetal_weight_at_ultrasound < 2330 THEN 10
        WHEN gestational_age_at_inclusion = 35 AND fetal_weight_at_ultrasound >=
2330 AND fetal_weight_at_ultrasound < 2527 THEN 25
        WHEN gestational_age_at_inclusion = 35 AND fetal_weight_at_ultrasound >=
2527 AND fetal_weight_at_ultrasound < 2723 THEN 50
        WHEN gestational_age_at_inclusion = 35 AND fetal_weight_at_ultrasound >=
2723 AND fetal_weight_at_ultrasound < 2904 THEN 75
        WHEN gestational_age_at_inclusion = 35 AND fetal_weight_at_ultrasound >=
2904 AND fetal_weight_at_ultrasound < 3018 THEN 90
        WHEN gestational_age_at_inclusion = 35 AND fetal_weight_at_ultrasound >=
3018 AND fetal_weight_at_ultrasound < 3148 THEN 95
        WHEN gestational_age_at_inclusion = 35 AND fetal_weight_at_ultrasound >=
3148 THEN 97.5
        -- Gestational Age 36 Weeks
        WHEN gestational_age_at_inclusion = 36 AND fetal_weight_at_ultrasound >=
2113 AND fetal_weight_at_ultrasound < 2205 THEN 2
        WHEN gestational_age_at_inclusion = 36 AND fetal_weight_at_ultrasound >=
2205 AND fetal_weight_at_ultrasound < 2352 THEN 5
        WHEN gestational_age_at_inclusion = 36 AND fetal_weight_at_ultrasound >=
2352 AND fetal_weight_at_ultrasound < 2531 THEN 10
        WHEN gestational_age_at_inclusion = 36 AND fetal_weight_at_ultrasound >=
2531 AND fetal_weight_at_ultrasound < 2745 THEN 25
        WHEN gestational_age_at_inclusion = 36 AND fetal_weight_at_ultrasound >=
2745 AND fetal_weight_at_ultrasound < 2959 THEN 50
        WHEN gestational_age_at_inclusion = 36 AND fetal_weight_at_ultrasound >=
2959 AND fetal_weight_at_ultrasound < 3153 THEN 75
        WHEN gestational_age_at_inclusion = 36 AND fetal_weight_at_ultrasound >=
3153 AND fetal_weight_at_ultrasound < 3277 THEN 90
        WHEN gestational_age_at_inclusion = 36 AND fetal_weight_at_ultrasound >=
3277 AND fetal_weight_at_ultrasound < 3422 THEN 95
```

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        WHEN gestational_age_at_inclusion = 36 AND fetal_weight_at_ultrasound >=
3422 THEN 97.5
        -- Gestational Age 37 Weeks
        WHEN gestational_age_at_inclusion = 37 AND fetal_weight_at_ultrasound >=
2280 AND fetal_weight_at_ultrasound < 2372 THEN 2
        WHEN gestational_age_at_inclusion = 37 AND fetal_weight_at_ultrasound >=
2372 AND fetal_weight_at_ultrasound < 2537 THEN 5
        WHEN gestational_age_at_inclusion = 37 AND fetal_weight_at_ultrasound >=
2537 AND fetal_weight_at_ultrasound < 2733 THEN 10
        WHEN gestational_age_at_inclusion = 37 AND fetal_weight_at_ultrasound >=
2733 AND fetal_weight_at_ultrasound < 2966 THEN 25
        WHEN gestational_age_at_inclusion = 37 AND fetal_weight_at_ultrasound >=
2966 AND fetal_weight_at_ultrasound < 3195 THEN 50
        WHEN gestational_age_at_inclusion = 37 AND fetal_weight_at_ultrasound >=
3195 AND fetal_weight_at_ultrasound < 3403 THEN 75
        WHEN gestational_age_at_inclusion = 37 AND fetal_weight_at_ultrasound >=
3403 AND fetal_weight_at_ultrasound < 3538 THEN 90
        WHEN gestational_age_at_inclusion = 37 AND fetal_weight_at_ultrasound >=
3538 AND fetal_weight_at_ultrasound < 3697 THEN 95
        WHEN gestational_age_at_inclusion = 37 AND fetal_weight_at_ultrasound >=
3697 THEN 97.5
        -- Gestational Age 38 Weeks
        WHEN gestational_age_at_inclusion = 38 AND fetal_weight_at_ultrasound >=
2446 AND fetal_weight_at_ultrasound < 2536 THEN 2
        WHEN gestational_age_at_inclusion = 38 AND fetal_weight_at_ultrasound >=
2536 AND fetal_weight_at_ultrasound < 2723 THEN 5
        WHEN gestational_age_at_inclusion = 38 AND fetal_weight_at_ultrasound >=
2723 AND fetal_weight_at_ultrasound < 2935 THEN 10
        WHEN gestational_age_at_inclusion = 38 AND fetal_weight_at_ultrasound >=
2935 AND fetal_weight_at_ultrasound < 3186 THEN 25
        WHEN gestational_age_at_inclusion = 38 AND fetal_weight_at_ultrasound >=
3186 AND fetal_weight_at_ultrasound < 3432 THEN 50
        WHEN gestational_age_at_inclusion = 38 AND fetal_weight_at_ultrasound >=
3432 AND fetal_weight_at_ultrasound < 3652 THEN 75
        WHEN gestational_age_at_inclusion = 38 AND fetal_weight_at_ultrasound >=
3652 AND fetal_weight_at_ultrasound < 3799 THEN 90
        WHEN gestational_age_at_inclusion = 38 AND fetal_weight_at_ultrasound >=
3799 AND fetal_weight_at_ultrasound < 3973 THEN 95
        WHEN gestational_age_at_inclusion = 38 AND fetal_weight_at_ultrasound >=
3973 THEN 97.5
```

```
        -- Gestational Age 39 Weeks
        WHEN gestational_age_at_inclusion = 39 AND fetal_weight_at_ultrasound >=
2612 AND fetal_weight_at_ultrasound < 2696 THEN 2
        WHEN gestational_age_at_inclusion = 39 AND fetal_weight_at_ultrasound >=
2696 AND fetal_weight_at_ultrasound < 2905 THEN 5
        WHEN gestational_age_at_inclusion = 39 AND fetal_weight_at_ultrasound >=
2905 AND fetal_weight_at_ultrasound < 3135 THEN 10
        WHEN gestational_age_at_inclusion = 39 AND fetal_weight_at_ultrasound >=
3135 AND fetal_weight_at_ultrasound < 3403 THEN 25
        WHEN gestational_age_at_inclusion = 39 AND fetal_weight_at_ultrasound >=
3403 AND fetal_weight_at_ultrasound < 3664 THEN 50
        WHEN gestational_age_at_inclusion = 39 AND fetal_weight_at_ultrasound >=
3664 AND fetal_weight_at_ultrasound < 3897 THEN 75
        WHEN gestational_age_at_inclusion = 39 AND fetal_weight_at_ultrasound >=
3897 AND fetal_weight_at_ultrasound < 4058 THEN 90
        WHEN gestational_age_at_inclusion = 39 AND fetal_weight_at_ultrasound >=
4058 AND fetal_weight_at_ultrasound < 4247 THEN 95
        WHEN gestational_age_at_inclusion = 39 AND fetal_weight_at_ultrasound >=
4247 THEN 97.5
        ELSE NULL -- Default value if no condition matches
END;
```

--CREATING NEW COLUMN weight_percentile_group

```
ALTER TABLE ultrasound_results ADD COLUMN weight_percentile_group text;
```

---Updating the values in the new column weight_percentile_group based on percentile groups

---If weight_percentile is less than 10 its SGA(Small Gestational Age),
---if between 10 and 90 its NGA(Normal Gestational Age),
---if greater than 90 its LGA(Large Gestational Age).

```
UPDATE ultrasound_results
SET weight_percentile_group=
CASE
        WHEN weight_percentile <10 THEN 'SGA'
        WHEN weight_percentile >=10 AND weight_percentile<90 THEN 'NGA'
        WHEN weight_percentile>=90 THEN 'LGA'
        ELSE NULL
END;
```