```
create table pregnancy_diagnosis
(
       codes varchar(255)
);
create table encounter_table
(
       enc_id int,
  enc_patient_id int,
  visit_prov_id int,
  enc_status varchar(255),
  enc_date date,
  due_date date
);
create table encounter_dx_table
(
       dx_enc_id int,
  dx_line int,
  dx_icd varchar(255)
);
create table location_table
(
       loc_id int,
  loc_name varchar(255),
  loc_sa varchar(255)
);
create table patient_table
(
```

```
unique_patient_id int,
  gender varchar(255),
  birth_date date,
  pat_loc_id int,
  pat_pcp_id int
);
create table pcp_table
(
       unique_patient_id int,
  pcp_prov_id int
);
create table provider_table
(
       prov_id int,
  prov_name varchar(255),
  prov_loc_id int,
  prov_spec varchar(255)
);
SET GLOBAL local_infile=1;
-- Importing csv files into MySQL Workbench
LOAD DATA LOCAL INFILE 'C:\\Users\\Neel\\Downloads\\MAPMGTechnical Assessment - Due
October 2 at 11_520230927011310\\Pregnancy Assessment\\Pregnancy_Diagnosis.csv'
INTO TABLE pregnancy_diagnosis
FIELDS TERMINATED BY ','
IGNORE 1 LINES;
```

LOAD DATA LOCAL INFILE 'C:\\Users\\Neel\\Downloads\\MAPMGTechnical Assessment - Due

October 2 at 11_520230927011310\\Pregnancy Assessment\\Encounter_Table.csv'

```
INTO TABLE encounter_table
FIELDS TERMINATED BY ','
IGNORE 1 LINES;
LOAD DATA LOCAL INFILE 'C:\\Users\\Neel\\Downloads\\MAPMGTechnical Assessment - Due
October 2 at 11_520230927011310\\Pregnancy Assessment\\Encounter_dx_Table.csv'
INTO TABLE encounter_dx_table
FIELDS TERMINATED BY ','
IGNORE 1 LINES;
LOAD DATA LOCAL INFILE 'C:\\Users\\Neel\\Downloads\\MAPMGTechnical Assessment - Due
October 2 at 11_520230927011310\\Pregnancy Assessment\\Location_Table.csv'
INTO TABLE location_table
FIELDS TERMINATED BY ','
IGNORE 1 LINES;
LOAD DATA LOCAL INFILE 'C:\\Users\\Neel\\Downloads\\MAPMGTechnical Assessment - Due
October 2 at 11_520230927011310\\Pregnancy Assessment\\Patient_Table.csv'
INTO TABLE patient_table
FIELDS TERMINATED BY ','
IGNORE 1 LINES;
LOAD DATA LOCAL INFILE 'C:\\Users\\Neel\\Downloads\\MAPMGTechnical Assessment - Due
October 2 at 11_520230927011310\\Pregnancy Assessment\\PCP_Table.csv'
INTO TABLE pcp_table
FIELDS TERMINATED BY ','
IGNORE 1 LINES;
LOAD DATA LOCAL INFILE 'C:\\Users\\Neel\\Downloads\\MAPMGTechnical Assessment - Due
October 2 at 11_520230927011310\\Pregnancy Assessment\\Provider_Table.csv'
INTO TABLE provider_table
FIELDS TERMINATED BY ','
IGNORE 1 LINES;
```

```
show tables;
-- female patients with age greater than 17
drop table kp_patient_encounter;
create table kp_patient_encounter as
select a.unique_patient_id, a.gender, a.birth_date
       , b.enc_id, b.visit_prov_id, b.enc_status, b.enc_date, b.due_date
  , TIMESTAMPDIFF(YEAR, a.birth_date, b.enc_date) as age
from patient_table a
left join encounter_table b
       on a.unique_patient_id = b.enc_patient_id
where gender = 'F' and TIMESTAMPDIFF(YEAR, a.birth_date, b.enc_date) > 17
order by a.unique_patient_id, b.enc_date
-- visiting provider specialty = OBGYN
drop table kp_pat_prov_enc;
create table kp_pat_prov_enc as
select a.*, b.prov_name, b.prov_spec
from kp_patient_encounter as a
left join provider_table as b
       on a.visit_prov_id = b.prov_id
where upper(prov_spec) = 'OBGYN'
order by a.unique_patient_id, a.enc_date
-- encounters with preganancy codes
drop table kp_preg_enc;
```

```
create table kp_preg_enc as
select distinct a.dx_enc_id, b.codes as preg_code
from encounter_dx_table as a
left join pregnancy_diagnosis as b
       on a.dx_icd = b.codes
where b.codes is not null
order by a.dx_enc_id
-- encounters with either due date populated or pregnancy diagnosis
drop table kp_preg_pat_prov_enc;
create table kp_preg_pat_prov_enc as
select a.*, b.preg_code
from kp_pat_prov_enc as a
left join kp_preg_enc as b
       on a.enc_id = b.dx_enc_id
where (a.due_date <> '0000-00-00' and a.due_date > a.enc_date)
       or b.preg_code is not null
;
-- identify multiple encounters
drop table denominator;
create table denominator as
select a.*, TIMESTAMPDIFF(WEEK, a.enc_date, a.due_date) as weeks_due
       , rank() over (partition by a.unique_patient_id order by a.enc_date, a.enc_id) as seq
from kp_preg_pat_prov_enc a
order by a.unique_patient_id, a.enc_date
```

```
-- get only 1st encounter from multiple encounters
drop table final_denominator;
create table final_denominator as
select unique_patient_id, gender, age,
       visit_prov_id, prov_spec,
       enc_id, enc_status, enc_date, due_date, weeks_due, preg_code, 1 as denominator
from denominator
where seq = 1
-- denominator count
select count(unique_patient_id)
from final_denominator
/*Numerator calculation begins*/
-- The number of patients with a completed visit to the OBGYN between 40 and 27 weeks prior to
delivery.
drop table kp_numerator_1;
create table kp_numerator_1 as
select a.*
       , case when (a.enc_status = 'Completed' or a.enc_status = 'Compeleted') and
a.weeks_due>=27 and a.weeks_due<=40 then 1 else 0 end as due_date_numerator
from denominator a
order by a.unique_patient_id, a.enc_id, a.visit_prov_id
;
```

```
-- Pregnant member identified solely by diagnoses should have an encounter within 6 weeks of
diagnosis
drop table kp_numerator_2;
create table kp_numerator_2 as
select a.*
       , b.enc_date as next_enc_date
       , TIMESTAMPDIFF(WEEK, b.enc_date, a.enc_date) as preg_follow_up_weeks
       , case when b.preg_code is not null and TIMESTAMPDIFF(WEEK, b.enc_date, a.enc_date) <=
6 then 1 else 0 end as preg_follow_up_numerator
from denominator a
left join denominator b
       on a.unique_patient_id = b.unique_patient_id
               and b.seq = a.seq - 1
order by a.unique patient id, a.enc date
-- combining to get numerator
drop table final numerator;
create table final_numerator as
select a.unique_patient_id, a.gender, a.age, a.visit_prov_id, a.prov_spec
       , a.enc_id, a.enc_status, a.enc_date, a.due_date, a.weeks_due, a.due_date_numerator
       , a.preg_code, b.preg_follow_up_weeks, b.preg_follow_up_numerator, case when
a.due_date_numerator = 1 or b.preg_follow_up_numerator = 1 then 1 else 0 end as numerator
from kp_numerator_1 a
left join kp_numerator_2 b
       on a.unique_patient_id = b.unique_patient_id
               and a.enc_id = b.enc_id
where a.seq = 1
```

```
order by a.unique_patient_id, a.enc_date
;
/****************/
-- final table with denom and num
drop table kp_preganancy_case_study;
create table kp_preganancy_case_study as
select a.*, b.numerator
from final_denominator a
left join final_numerator b
       on a.unique_patient_id = b.unique_patient_id
              and a.enc_id = b.enc_id
select *
from kp_preganancy_case_study
-- Percentage
drop table preg_percentage;
create table preg_percentage as
select sum(numerator) as num, sum(denominator) as denom,
round((sum(numerator)/sum(denominator))*100,2) as rate
from kp_preganancy_case_study
;
select *
from preg_percentage
```

;			