```sql
CREATE OR REPLACE TABLE baileywang-data225-spring2021.data225_project.Accident(
  Accident_ID INT64 NOT NULL, #PK
  Vehicle_ID INT64 NOT NULL, #FK
  Individual_ID INT64 NOT NULL, #FK
  Condition_ID INT64 NOT NULL, #FK
  Location_ID INT64 NOT NULL, #FK
  Accident_Date DATE,
  Accident_Hidden_ID STRING NOT NULL
);

CREATE OR REPLACE TABLE baileywang-data225-spring2021.data225_project.Vehicle(
  Vehicle_ID INT64 NOT NULL, #PK
  Vehicle_Brand STRING,
  Vehicle_Registration STRING,
  Vehicle_License_Plate STRING,
  Vehicle_License_Plate_State STRING,
  Vehicle_Maneuver STRING,
  Vehicle_Damage_Location STRING,
  Vehicle_Damage_Severity STRING,
  Vehicle_Hidden_ID STRING NOT NULL

);
CREATE OR REPLACE  TABLE baileywang-data225-spring2021.data225_project.Individual(
  Individual_ID INT64 NOT NULL, #PK
  Individual_Type STRING,
  Individual_FirstName STRING,
  Individual_LastName STRING,
  Driver_License STRING,
  Individual_Age INT64,
  Individual_Gender STRING,
  Individual_Injury_Severity STRING,
  Individual_Injury_Location STRING,
  Individual_Condition STRING,
  Individual_Hidden_ID STRING NOT NULL
);
CREATE OR REPLACE TABLE baileywang-data225-spring2021.data225_project.Condition(
```

```sql
   Condition_ID INT64 NOT NULL, #PK
   Lighting_Conditions STRING,
   Road_Surface_Conditions STRING,
   Weather_Conditions STRING
);



CREATE OR REPLACE TABLE baileywang-data225-spring2021.data225_project.Location(
   Location_ID INT64 NOT NULL, #PK
   County_Name STRING,
   State STRING
);

CREATE OR REPLACE TABLE data225_project.Occurrence_vehicle(
    Accident_ID INT64,
    Vehicle_ID INT64,
    Occurence_Description STRING
)

CREATE OR REPLACE TABLE data225_project.Occurrence_individual(
    Accident_ID INT64,
    Individual_ID INT64,
    Occurence_Description STRING
)

CREATE OR REPLACE PROCEDURE data225_project.consumer_aid(
    IN P_REPORT INT64
)

BEGIN
    SELECT Accident_ID, Accident_Date,
    Lighting_Conditions, Road_Surface_Conditions, Weather_Conditions,
    Individual_Type, Individual_Age, Individual_Gender, Individual_Injury_Location,
Individual_Injury_Severity, Individual_Condition,
    County_Name, State,
```

```sql
        Vehicle_Brand, Vehicle_Maneuver, Vehicle_Damage_Location, Vehicle_Damage_Severity
        FROM baileywang-data225-spring2021.data225_project.company_view
        WHERE P_REPORT = company_view.Acident_ID;
END;

#Procedure to produce columns that are useful for analytics
CREATE OR REPLACE PROCEDURE data225_project.analytics()

BEGIN
    SELECT Accident_ID, Vehicle_ID, Individual_ID,
    Individual_Type, Individual_Age, Individual_Gender, Individual_Injury_Location,
Individual_Injury_Severity, Individual_Condition,
    State,
    Vehicle_Brand, Vehicle_Maneuver, Vehicle_Damage_Location, Vehicle_Damage_Severity
        FROM baileywang-data225-spring2021.data225_project.company_view;
END;
SELECT RANK() OVER(ORDER BY County_Name) AS Location_ID, County_Name, State
FROM(SELECT DISTINCT County_Name FROM
`baileywang-data225-spring2021.data225_project.case_info`)

SELECT RANK() OVER(ORDER BY Lighting_Conditions, Road_Surface_Conditions,
Weather_Conditions) AS Condition_ID, Lighting_Conditions, Road_Surface_Conditions,
Weather_Conditions
FROM(SELECT DISTINCT Lighting_Conditions, Road_Surface_Conditions, Weather_Conditions
FROM `baileywang-data225-spring2021.data225_project.case_info`)

CREATE OR REPLACE TABLE data225_project.Occurrence_vehicle AS SELECT
Accident.Accident_ID AS Accident_ID,
Accident.Vehicle_ID AS Vehicle_ID,
NULL AS Occurence_Description
FROM data225_project.Accident

CREATE OR REPLACE TABLE data225_project.Occurrence_individual AS SELECT
Accident.Accident_ID AS Accident_ID,
Accident.Individual_ID AS Individual_ID,
NULL AS Occurence_Description
```

```sql
FROM data225_project.Accident

#Inserting data into the tables
INSERT INTO data225_project.Accident VALUES(2,2,2,1,3,'2020-01-10', GENERATE_UUID());
INSERT INTO data225_project.Individual VALUES(2, 'PEDESTRIAN', 'Jane', 'Smith',
'123123234', 22, 'F', NULL, 'FACE', NULL, GENERATE_UUID());
INSERT INTO data225_project.Vehicle VALUES(2, 'HONDA','JF2SJADC2GH462251', 'ZAS9064',
'PA', 'Major', 'Going Straight Ahead','front bumper', GENERATE_UUID());

INSERT INTO data225_project.Accident VALUES(1,1,1,1,1,'2020-01-09', GENERATE_UUID());
INSERT INTO data225_project.Individual VALUES(1, 'PEDESTRIAN', 'John', 'Smith',
'123123123', 19, 'M', NULL, NULL, NULL, GENERATE_UUID());
INSERT INTO data225_project.Vehicle VALUES(1, 'TOYTA','JF2SJADC2GH462251', 'XVY6903',
'NY', 'Minor', 'Going Straight Ahead','back bumper', GENERATE_UUID());

INSERT INTO data225_project.Accident VALUES(3,3,3,2,44,'2020-01-01', GENERATE_UUID());
INSERT INTO data225_project.Individual VALUES(3, 'CYCLIST', 'Ron', 'Daniels', NULL,
32, 'M', 'Major', 'Body', NULL, GENERATE_UUID());
INSERT INTO data225_project.Vehicle VALUES(3, 'HONDA','1FMZU77K24UA51991', 'BVU6443',
'MD', 'Minor', 'Going Straight Ahead','Right Door', GENERATE_UUID());

INSERT INTO data225_project.Accident VALUES(4,4,4,2,43,'2020-02-01', GENERATE_UUID());
INSERT INTO data225_project.Individual VALUES(4, 'Passenger of a Motor Vehicle in
Transport', 'Robin', 'Clark', NULL, 33, 'F', 'Major', 'Body', 'Dead',
GENERATE_UUID());
INSERT INTO data225_project.Vehicle VALUES(4, 'HONDA','1FMZU77K24UA51991', 'BVU6443',
'MD', 'Major', 'Going Straight Ahead','Front bumper', GENERATE_UUID());

#Insert data into Condition Table
INSERT INTO data225_project.Condition VALUES(0, "Unknown", "Unknown", "Unknown")

#Updating existing table's information
UPDATE data225_project.Individual
SET Individual_LastName = 'Cook', Individual_FirstName = 'Tom'
WHERE Individual_id = 1
```

```sql
#Removing rows from existing tables
DELETE FROM data225_project.Vehicle
WHERE Vehicle_Hidden_ID = '154bfa69-eace-41f8-a913-783e17c52b83'
#Hidden_ID is the same as the GENERATE_UUID code

DELETE FROM data225_project.Individual
WHERE Individual_Hidden_ID = '154bfa69-eace-41f8-a913-783e17c52b83'

DELETE FROM data225_project.Accident
WHERE Accident_Hidden_ID = '154bfa69-eace-41f8-a913-783e17c52b83'

SELECT *
FROM data225_project.company_view

SELECT *
FROM data225_project.company_view


SELECT *
FROM data225_project.consumer_view




CALL data225_project.consumer_aid(611392);



CALL data225_project.analytics();

SELECT *
FROM
    baileywang-data225-spring2021.data225_project.company_view FOR SYSTEM_TIME AS OF
TIMESTAMP_SUB(CURRENT_TIMESTAMP(), INTERVAL 2 DAY)

CREATE OR REPLACE VIEW data225_project.company_view
AS
SELECT
```

```sql
Accident.Accident_ID AS Accident_ID,  Accident.Accident_Date,
Vehicle.Vehicle_ID, Vehicle_Brand, Vehicle_Registration, Vehicle_License_Plate,
Vehicle_License_Plate_State, Vehicle_Maneuver, Vehicle_Damage_Location,
Vehicle_Damage_Severity,
Individual.Individual_ID, Individual_FirstName, Individual_LastName, Driver_License,
Individual_Age, Individual_Gender,
Individual_Type, Individual_Injury_Location, Individual_Injury_Severity,
Individual_Condition,
Condition.Condition_ID, Lighting_Conditions, Road_Surface_Conditions,
Weather_Conditions,
Location.Location_ID, County_Name, State,
Accident_Hidden_ID, Individual_Hidden_ID, Vehicle_Hidden_ID
FROM baileywang-data225-spring2021.data225_project.Accident
JOIN baileywang-data225-spring2021.data225_project.Condition ON Condition.Condition_ID
= Accident.Condition_ID
JOIN baileywang-data225-spring2021.data225_project.Occurrence_individual ON
Occurrence_individual.Accident_ID = Accident.Accident_ID
JOIN baileywang-data225-spring2021.data225_project.Individual ON
Individual.Individual_ID = Occurrence_individual.Individual_ID
JOIN baileywang-data225-spring2021.data225_project.Location ON Location.Location_ID =
Accident.Location_ID
JOIN baileywang-data225-spring2021.data225_project.Occurrence_vehicle ON
Occurrence_vehicle.Accident_ID = Accident.Accident_ID
JOIN baileywang-data225-spring2021.data225_project.Vehicle ON Vehicle.Vehicle_ID =
Occurrence_vehicle.Vehicle_ID;

CREATE OR REPLACE VIEW data225_project.car_company_view AS
SELECT
Accident_ID, Vehicle_ID, Individual_ID, Accident_Date,
Vehicle_Brand, Vehicle_License_Plate_State, Vehicle_Maneuver, Vehicle_Damage_Location,
Vehicle_Damage_Severity,
Individual_Type, Individual_Injury_Location, Individual_Injury_Severity,
Individual_Condition
Lighting_Conditions, Road_Surface_Conditions, Weather_Conditions,
County_Name, State
FROM baileywang-data225-spring2021.data225_project.company_view
```

```sql
CREATE OR REPLACE VIEW data225_project.consumer_view AS
SELECT Accident_ID, Vehicle_ID, Individual_ID, Accident_Date,
Individual_Type, Individual_Age, Individual_Gender, Individual_Injury_Location,
Individual_Injury_Severity, Individual_Condition,
County_Name, State,
Lighting_Conditions, Road_Surface_Conditions, Weather_Conditions,
Vehicle_Brand, Vehicle_Maneuver, Vehicle_Damage_Location, Vehicle_Damage_Severity
FROM baileywang-data225-spring2021.data225_project.company_view;
```