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#Philip Samuel
USE collisions_nov2020;

DROP VIEW IF EXISTS stationwagon_pre_crash_action;
CREATE VIEW stationwagon_pre_crash_action AS
SELECT vehicleinfo.Vehicle_Type, vehicle.Pre_Crash_Action, COUNT(*) as
count
FROM vehicle
JOIN vehicleinfo ON vehicle.Info_ID = vehicleinfo.Info_ID
WHERE vehicleinfo.Vehicle_Type = 'Station Wagon/Sport Utility Vehicle'
GROUP BY vehicleinfo.Vehicle_Type, vehicle.Pre_Crash_Action
ORDER BY count ASC;

#Maria Gomes Master
USE collisions_nov2020;
DROP VIEW IF EXISTS crash_damage_overview;
CREATE VIEW crash_damage_overview AS
    SELECT DISTINCT q1.Vehicle_Type AS 'Vehicle Type',
    q1.vehicle_crash_count AS 'Vehicle Crash Count',
    q1.total_property_damage AS 'Total Property Damage',
    q2.Driver_Sex AS 'Driver Sex',
    q2.driver_crash_count AS 'Driver Crash Count'
    FROM
    (
        SELECT Vehicle_Type, COUNT(Vehicle_Type) AS
vehicle_crash_count,
        SUM(CASE WHEN Public_Property_Damage IN ('Y', 'N') THEN 1
ELSE 0 END) AS total_property_damage
        FROM vehicle
        JOIN vehicleinfo USING(Info_ID)
        JOIN crash USING (Unique_ID)
        JOIN propertydamage USING (Property_Damage_ID)
        WHERE Crash_Date >= '2020-11-01' AND Crash_Date <= '2020-
11-30'

        GROUP BY Vehicle_Type
    ) AS q1
    JOIN
    (
        SELECT Driver_Sex, COUNT(DISTINCT Driver_ID) AS
driver_crash_count, Vehicle_Type
        FROM driver
        JOIN vehicle USING(Driver_ID)
        JOIN vehicleinfo USING(Info_ID)
        WHERE Driver_License_Status = 'Licensed' AND Driver_Sex
IS NOT NULL

        GROUP BY Driver_Sex, Vehicle_Type
    ) AS q2 ON q1.Vehicle_Type = q2.Vehicle_Type
    ORDER BY q1.vehicle_crash_count DESC, q1.Vehicle_Type;

#Malik Oumarou
USE collisions_nov2020;
DROP view if exists malik_contributing_factors;
Create view malik_contributing_factors AS

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SELECT COUNT(Contributing_Factors) AS Contributing_Factor,
D.Contributing_Factors
FROM vehicle
JOIN contributingfactorsvehiclelinking C USING(Unique_ID)
JOIN contributingfactors D ON C.Contributing_Factor =
D.Contributing_Factors_ID
GROUP BY Contributing_Factors_ID, D.Contributing_Factors;

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#Yash Gupta
USE collisions_nov2020;
DROP VIEW IF EXISTS safe_vehicles;
CREATE VIEW safe_vehicles AS
    SELECT Vehicle_Type, Vehicle_Make
    FROM vehicleinfo
    JOIN vehicle USING (Info_ID)
    WHERE Point_Of_Impact = 'No Damage'
    GROUP BY Point_Of_Impact, Vehicle_Type, Vehicle_Make;

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#Zhen Zhou
USE collisions_nov2020;

DROP VIEW IF EXISTS driver_crash_counts;
CREATE VIEW driver_crash_counts AS
SELECT driver.Driver_License_Jurisdiction, COUNT(DISTINCT
crash.Collision_ID) AS Total_Crashes
FROM driver
JOIN vehicle ON driver.Driver_ID = vehicle.Driver_ID
JOIN crash ON vehicle.Unique_ID = crash.Unique_ID
WHERE Driver_License_Jurisdiction != 'No Driver License Jurisdiction
Reported'
GROUP BY driver.Driver_License_Jurisdiction
ORDER BY Total_Crashes DESC;

SELECT * FROM driver_crash_counts;

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