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1. )
CREATE VIEW Vehicles_with_Factors AS
SELECT V.Vehicle_Type, CF.Contributing_Factor
FROM VEHICLES V
JOIN VEHICLES_has_CONTRIBUTING_FACTORS VCF ON V.Vehicle_ID =
VCF.VEHICLES_Vehicle_ID
JOIN CONTRIBUTING_FACTORS CF ON
VCF.CONTRIBUTING_FACTORS_Contributing_Factor_ID =
CF.Contributing_Factor_ID
WHERE V.Vehicle_ID IN (SELECT Vehicle_ID FROM DRIVERS WHERE Driver_Sex =
'Male');

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2. ) CREATE VIEW Modified_Morning_Collisions AS
SELECT Unique_ID, Crash_Date, Crash_Time
FROM COLLISIONS
WHERE Crash_Time BETWEEN '06:00' AND '12:00';

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3. )
CREATE VIEW Car_Collisions_With_Driver_Info AS
SELECT C.Unique_ID, V.Vehicle_Type, D.Driver_Sex
FROM COLLISIONS C
JOIN COLLISIONS_VEHICLES CV ON C.Unique_ID = CV.COLLISIONS_Unique_ID
JOIN VEHICLES V ON CV.VEHICLES_Vehicle_ID = V.Vehicle_ID
JOIN DRIVERS D ON V.Vehicle_ID = D.Vehicle_ID
WHERE V.Vehicle_Type = 'Car';

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4. )
SELECT Vehicle_Type AS 'Vehicle Type', COUNT(*) AS 'Number of Accidents'
FROM vehicles
GROUP BY Vehicle_Type
ORDER BY COUNT(*) DESC;

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SELECT Vehicle_Type AS 'Vehicle Type', COUNT(*) AS 'Front Bumper Damage'
FROM vehicles
LEFT JOIN vehicles_has_vehicle_damages ON vehicles.Vehicle_ID =
vehicles_has_vehicle_damages.VEHICLES_Vehicle_ID
INNER JOIN vehicle_damages ON vehicle_damages.Vehicle_Damage_ID =
vehicles_has_vehicle_damages.VEHICLE_DAMAGES_Vehicle_Damage_ID
WHERE vehicle_damages.Vehicle_damage = ('Left Front Bumper' OR 'Right
Front Bumper')
GROUP BY Vehicle_Type
ORDER BY COUNT(*) DESC;

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5. )
SELECT Vehicle_Type, Crash_Date, Crash_Time FROM collisions

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LEFT JOIN collisions_vehicles ON collisions.Unique_ID =
collisions_vehicles.COLLISIONS_Unique_ID
INNER JOIN vehicles ON vehicles.Vehicle_ID =
collisions_vehicles.VEHICLES_Vehicle_ID
ORDER BY Crash_Time;

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6. )
CREATE VIEW Inattentive_Driver_Collisions AS
SELECT V.Vehicle_Type, C.Crash_Date, C.Crash_Time
FROM VEHICLES V
JOIN COLLISIONS_VEHICLES CV ON V.Vehicle_ID = CV.VEHICLES_Vehicle_ID
JOIN COLLISIONS C ON CV.COLLISIONS_Unique_ID = C.Unique_ID
JOIN VEHICLES_has_CONTRIBUTING_FACTORS VCF ON V.Vehicle_ID =
VCF.VEHICLES_Vehicle_ID
JOIN CONTRIBUTING_FACTORS CF ON
VCF.CONTRIBUTING_FACTORS_Contributing_Factor_ID =
CF.Contributing_Factor_ID
WHERE CF.Contributing_Factor = 'Driver Inattention/Distraction';

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Req. A
Req. B
Req. C
Req. D
Req. E
Vehicles_with_Factors

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X

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X
X
Morning_Collisions

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X

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Car_Collisions_With_Driver_Info
X
X

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X

4
X

X

5
X

6
X

X