**TASK 1**

USE "ROAD\_SAFETY\_UK";

CREATE OR REPLACE TABLE ACCIDENT

(

Accident\_Index VARCHAR(40) NOT NULL PRIMARY KEY,

C1 INTEGER,

C2 INTEGER,

C3 DECIMAL(10,8),

C4 DECIMAL(10,8),

C5 INTEGER,

accident\_severity INTEGER,

C7 INTEGER,

C8 INTEGER,

C9 STRING,

C10 INTEGER,

C11 TIME,

C12 INTEGER,

C13 VARCHAR(40),

C14 INTEGER,

C15 INTEGER,

C16 INTEGER,

C17 INTEGER,

C18 INTEGER,

C19 INTEGER,

C20 INTEGER,

C21 INTEGER,

C22 INTEGER,

C23 INTEGER,

C24 INTEGER,

C25 INTEGER,

C26 INTEGER,

C27 INTEGER,

C28 INTEGER,

C29 INTEGER,

C30 INTEGER,

C31 VARCHAR(50)

);

CREATE OR REPLACE TABLE VEHICLES

(

Accident\_Index VARCHAR(40) NOT NULL ,

C1 INTEGER,

vehicle\_type INTEGER,

C3 INTEGER,

C4 INTEGER,

C5 INTEGER,

C6 INTEGER,

C7 INTEGER,

C8 INTEGER,

C9 INTEGER,

C10 INTEGER,

C11 INTEGER,

C12 INTEGER,

C13 INTEGER,

C14 INTEGER,

C15 INTEGER,

C16 INTEGER,

C17 INTEGER,

C18 INTEGER,

C19 INTEGER,

C20 INTEGER,

C21 INTEGER,

C22 INTEGER

);

CREATE OR REPLACE TABLE vehicle\_types(

vehicle\_code INT,

vehicle\_type VARCHAR(50)

);

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**1. Evaluate the median severity value of accidents caused by various Motorcycles.**

CREATE OR REPLACE TABLE Median\_of\_accidents as

SELECT distinct A.Accident\_Index, A.accident\_severity, V2.vehicle\_code, V2.vehicle\_type FROM ACCIDENT A

INNER JOIN VEHICLES V1 ON A.Accident\_Index = V1.Accident\_Index

INNER JOIN VEHICLE\_TYPES V2 ON V1.vehicle\_type = V2.vehicle\_code

WHERE V2.vehicle\_type like '%otorcycle%';

SELECT vehicle\_type, median(accident\_severity) as median FROM Median\_of\_accidents

group by vehicle\_type order by 2 desc;

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**2. Evaluate Accident Severity and Total Accidents per Vehicle Type**

CREATE OR REPLACE TABLE Master\_table as

SELECT distinct A.Accident\_Index, A.accident\_severity, V2.vehicle\_code, V2.vehicle\_type FROM ACCIDENT A

INNER JOIN VEHICLES V1 ON A.Accident\_Index = V1.Accident\_Index

INNER JOIN VEHICLE\_TYPES V2 ON V1.vehicle\_type = V2.vehicle\_code;

select vehicle\_type, count(\*) as Total\_Accidents, median(accident\_severity) as Severity from Master\_table group by vehicle\_type order by 2 desc;

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**3. Calculate the Average Severity by vehicle type.**

select vehicle\_type, avg(accident\_severity) as average\_severity from Master\_table

group by vehicle\_type order by 2 desc;

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**4.** **Calculate the Average Severity and Total Accidents by Motorcycle.**

select vehicle\_type, avg(accident\_severity) as average\_severity, count(\*) as Total\_Accidents from Master\_table where vehicle\_type like '%otorcycle%'

group by vehicle\_type order by 3 desc;

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**TASK 2**

use "WORLD\_POPULATION";

CREATE OR REPLACE TABLE CENSUS(

country STRING,

area INTEGER,

birth\_rate DECIMAL(6,3),

death\_rate DECIMAL(6,3),

infant\_mortality\_rate DECIMAL(7,4),

internet\_users INTEGER,

life\_exp\_at\_birth DECIMAL(7,4),

maternal\_mortality\_rate INTEGER,

net\_migration\_rate DECIMAL(7,4),

population INTEGER,

population\_growth\_rate DECIMAL(7,4)

);

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**1. Which country has the highest population?**

SELECT COUNTRY, POPULATION FROM CENSUS ORDER BY POPULATION DESC LIMIT 1;

**2. Which country has the least number of people?**

SELECT COUNTRY, POPULATION FROM CENSUS WHERE POPULATION != 0 ORDER BY POPULATION ASC LIMIT 1;

**3. Which country is witnessing the highest population growth?**

SELECT COUNTRY, population\_growth\_rate FROM CENSUS WHERE population\_growth\_rate != 0 ORDER BY population\_growth\_rate DESC LIMIT 1;

**4. Which country has an extraordinary number for the population(min infant\_mortality\_rate, life\_exp\_at\_birth>80) ?**

SELECT COUNTRY AS Extraordinary\_Countries, infant\_mortality\_rate, life\_exp\_at\_birth FROM CENSUS WHERE life\_exp\_at\_birth>80 group by infant\_mortality\_rate order by infant\_mortality\_rate asc limit 5;

-**5. Which is the most densely populated country in the world?**

SELECT COUNTRY AS Most\_Densely\_Populated\_Country, (POPULATION/AREA) AS DENSITY FROM CENSUS WHERE AREA != 0 ORDER BY DENSITY DESC LIMIT 1;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*THANK YOU\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*