

```
Create database SQL_PROJECT
use SQL_PROJECT;
create or replace table accidents(
    Accident_Index varchar(30),
    Location_Easting_OSGR int,
    Location_Northing_OSGR int,
    Longitude int,
    Latitude int,
    Police_Force int,
    Accident_Severity int,
    Number_of_Vehicles int,
    Number_of_Casualties int,
    Date varchar(30),
    Day_of_Week int,
    Time varchar(30),
    Local_Authority_District int,
    Local_Authority_Highway varchar(30),
    First_Road_Class int,
    First_Road_Number int,
    Road_Type int,
    Speed_limit int,
    Junction_Detail int,
    Junction_Control int,
    Second_Road_Class int,
```

```
Second_Road_Number int,  
Pedestrian_Crossing_Human_Control int,  
Pedestrian_Crossing_Physical_Facilities int,  
Light_Conditions int,  
Weather_Conditions int,  
Road_Surface_Conditions int,  
Special_Conditions_at_Site int,  
Carriageway_Hazards int,  
Urban_or_Rural_Area int,  
Did_Police_Officer_Attend_Scene_of_Accident int,  
LSOA_of_Accident_Location varchar(30)  
);
```

```
select * from accidents;
```

```
create or replace table vehicle(  
Accident_Index varchar(30),  
Vehicle_Reference int,  
Vehicle_Type int ,  
Towing_and_Articulation int,  
Vehicle_Manoeuvre int,  
Vehicle_Location_Restricted_Lane int,  
Junction_Location int,  
Skidding_and_Overturning int,
```

```
Hit_Object_in_Carriageway int,  
Vehicle_Leaving_Carriageway int,  
Hit_object_off_Carriageway int,  
first_Point_of_Impact int,  
Was_Vehicle_Left_Hand_Drive int ,  
Journey_Purpose_of_Driver int ,  
Sex_of_Driver int ,  
Age_of_Driver int ,  
Age_Band_of_Driver int ,  
Engine_Capacity_CC int ,  
Propulsion_Code int ,  
Age_of_Vehicle int ,  
Driver_IMD_Decile int ,  
Driver_Home_Area_Type int ,  
Vehicle_IMD_Decile int  
);
```

```
select * from vehicle;
```

```
create or replace table vehicle_types(  
code int,  
label varchar(100)  
);
```

```
select * from vehicle_types;
```

Q1 : Evaluate the median severity value of accidents caused by various Motorcycles.

Ans :

```
select Distinct T.label , percentile_cont(0.50) within group (order by a.accident_severity) over  
(partition by T.label) as median_accidents_severity
```

```
from accidents a
```

```
inner join vehicle v on v.accident_index = a.accident_index
```

```
inner join vehicle_types t on t.code = v.vehicle_type
```

```
where t.label like '%otorcycle%';
```

Q2 : Evaluate Accident Severity and Total Accidents per Vehicle Type.

Ans :

```
select T.label , count (a.Accident_index) as total_accident ,
```

```
avg(a.accident_severity) as accident_severity from accidents a
```

```
inner join vehicle v on v.accident_index = a.accident_index
```

```
inner join vehicle_types t on t.code = v.vehicle_type
```

```
group by t.label ;
```

Q3 : Calculate the Average Severity by vehicle type.

Ans :

```
select t.label ,avg(a.accident_severity) as average_severity
```

```
from accidents a
```

```
inner join vehicle v on v.accident_index = a.accident_index
```

```
inner join vehicle_types t on t.code = v.vehicle_type
```

group by t.label ;

Q4 : Calculate the Average Severity and Total Accidents by Motorcycle.

Ans :

```
select t.label, count(a.accident_index) as Total_accidents, avg(a.accident_Severity) as
Accident_Severity
from accidents a
inner join vehicle v on v.accident_index = a.accident_index
inner join vehicle_types t on t.code = v.vehicle_type
where t.label like '%otorcycle%'
group by t.label
;
```

TASK 2

```
create table CIA_WORLD_FACTBOOK (
country varchar(50) ,
area int ,
birth_rate decimal ,
death_rate decimal ,
infant_mortality_rate decimal ,
internet_users varchar (50),
life_exp_at_birth decimal ,
maternal_mortality_rate int ,
```

```
net_migration_rate decimal ,  
population varchar (30),  
population_growth_rate decimal  
)
```

```
SELECT * FROM consumer_complaint.cia_world_factbook;
```

Q1 : Which country has the highest population?

```
select country ,max(population) from cia_world_factbook group by country
```

Q2 : Which country has the least number of people?

```
select country , min(population) from cia_world_factbook group by country order by population
```

Q3 : Which country is witnessing the highest population growth?

Ans : select country ,max(population_growth_rate) from cia_world_factbook group by country
order by population_growth_rate desc

Q4 : Which country has an extraordinary number for the population?

Ans : In according to me Extraordinary mean in this dataset which country is maximum
population

```
select * , max(population) from Cia_world_factbook
```

Q5 : 5. Which is the most densely populated country in the world?

Ans :

```
select Country , population , area , population / area as population_density from  
cia_world_factbook;
```

