```
USE "INERUON TASKS";
3
    SELECT * FROM "INERUON TASKS"."PUBLIC"."ACCIDENTS 2015";
    SELECT * FROM "INERUON TASKS"."PUBLIC"."VEHICLES 2015";
    SELECT * FROM "INERUON TASKS"."PUBLIC"."VEHICLE_TYPES";
5
6
7
    -----1. Evaluate the median severity value of accidents caused by various
    Motorcycles.---->-
8
9
    -----SOLUTION
    1-----
10
11
    with med as (
12
    select a.ACCIDENT SEVERITY, v. Vehicle type, vt.label, ROW NUMBER() OVER (PARTITION BY LABEL
    ORDER BY ACCIDENT SEVERITY) AS RN,
13
    COUNT (1) OVER (PARTITION BY LABEL) AS CT
14
   from "ACCIDENTS_2015" a
15
   inner join "VEHICLES 2015" v on a.ACCIDENT INDEX=v.ACCIDENT INDEX
    inner join "VEHICLE TYPES" vt on v. Vehicle type=vt.code
16
17
    where label like '%otorcycle%')
18
19
  select label, ROUND (AVG (ACCIDENT SEVERITY), 0) as median value
20 FROM MED
21
   WHERE RN = CEIL(CT/2) OR RN IN (CT/2, (CT/2)+1)
22
    GROUP BY 1;
23
24
     ------Solution
    2-----
25
   select MEDIAN(T.Accident Severity) as Median Severity , t.LABEL from
26
27
    select v.Accident Index , act.Accident Severity , vt.CODE , vt.LABEL
28
    from vehicles 2015 as v
29
    left join vehicle types as vt on v.vehicle type = vt.CODE
30
    left join accidents_2015 as act on act.Accident_Index = v.Accident_Index)
    as t where t.LABEL like '%Motorcycle%' group by LABEL;
31
32
33
34
    ----2. Evaluate Accident Severity and Total Accidents per Vehicle
    Type.----
35
36
   SELECT COUNT (ACCIDENT INDEX), ACCIDENT SEVERITY, Vehicle type, label FROM
37
    (select a.ACCIDENT INDEX, a.ACCIDENT SEVERITY, v. Vehicle type, vt. label
   from "ACCIDENTS 2015" a
   inner join "VEHICLES 2015" v on a.ACCIDENT_INDEX=v.ACCIDENT_INDEX
39
    inner join "VEHICLE TYPES" vt on v.Vehicle type=vt.code)SQ
40
    GROUP BY 2,3,4
41
42
    ORDER BY 4;
43
44
45
    -----3. Calculate the Average Severity by vehicle
46
47
    SELECT round(avg(ACCIDENT SEVERITY),2) AVG ACC SEVERITY, Vehicle type FROM
    (select a.ACCIDENT INDEX, a.ACCIDENT SEVERITY, v. Vehicle type, vt. label
49
    from "ACCIDENTS 2015" a
50
    inner join "VEHICLES 2015" v on a.ACCIDENT INDEX=v.ACCIDENT INDEX
51
    inner join "VEHICLE TYPES" vt on v.Vehicle type=vt.code)SQ
52
    GROUP BY 2
53
    ORDER BY 2 DESC, 1;
54
55
    -----4. Calculate the Average Severity and Total Accidents by
    Motorcycle.----
56
57
    select round(avg(a.ACCIDENT SEVERITY),2) AVG ACC SEVERITY, count(a.ACCIDENT INDEX) as
    TOTAL ACCIDENTS
58
    from "ACCIDENTS 2015" a
    inner join "VEHICLES 2015" v on a.ACCIDENT_INDEX=v.ACCIDENT_INDEX
59
    inner join "VEHICLE TYPES" vt on v.Vehicle type=vt.code
60
```

- where LABEL like '%otorcycle%' ORDER BY 2 desc;