Database Creation

create database motor\_record;

use motor\_record;

-- 1. total number of vehicle stolen

select count(\*) from stolen\_vehicles;



-- 2. Number of region

select count(distinct region) from locations;



-- Data cleaning and processing

set sql\_safe\_updates = 0;

alter table stolen\_vehicles add new\_date\_stolen date;

update stolen\_vehicles

set new\_date\_stolen = str\_to\_date(date\_stolen, "%m/%d/%Y");

-- Analysis

-- 1. stolen vehicle days

select distinct dayname(new\_date\_stolen) as day, count(ï»¿vehicle\_id) as numbers from stolen\_vehicles

group by day

order by numbers desc;



-- 2. types of vehicle based on region

create view data as

(select s.vehicle\_type, l.region

from stolen\_vehicles s join locations l using (location\_id));

select region, vehicle\_type, count(vehicle\_type),

rank() over ( partition by region order by count(vehicle\_type) desc) as numbers

from data

group by region, vehicle\_type;

with new\_table as

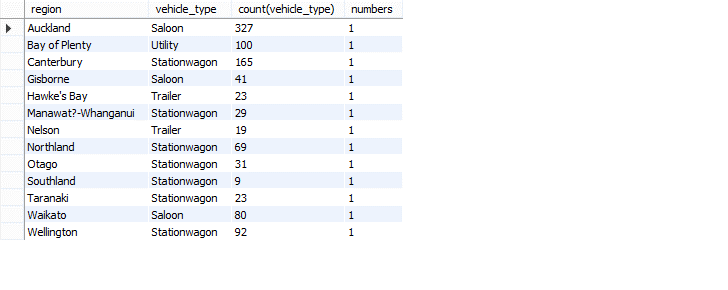
(select region, vehicle\_type, count(vehicle\_type),

rank() over ( partition by region order by count(vehicle\_type) desc) as numbers

from data

group by region, vehicle\_type)

select \* from new\_table where numbers = 1;



-- 3. age of vehicle based on behicle type

select model\_year, vehicle\_type, count(vehicle\_type) as numbers

from stolen\_vehicles

group by 1, 2

having numbers> 40

order by numbers desc

;



-- 4. region with high and low vehicle stolen, with density

with data as

(select s.vehicle\_type, l.region, l.density

from stolen\_vehicles s join locations l using (location\_id))

select region, density, count(vehicle\_type) as numbers

from data

group by region, density

order by numbers desc;

