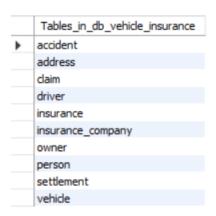


#### <u>List each query, describe their analytic purpose:</u>

SHOW TABLES; (to see tables in our database)



### 1. Find top 10 states with maximum no. of registered car.

SELECT STATE, COUNT(REGISTRATION\_NO) AS NUMBER\_OF\_VEHICLES FROM VEHICLE
GROUP BY STATE
ORDER BY COUNT(REGISTRATION\_NO) DESC
LIMIT 10;

| state                | Number_of_Vehicles  |
|----------------------|---|
| Texas                | 74  |
| Florida              | 62  |
| California           | 54  |
| New York             | 41  |
| Virginia             | 30  |
| Pennsylvania         | 26  |
| District of Columbia | 24  |
| Arizona              | 22  |
| Ohio                 | 22  |
| Georgia              | 22  |
|                      | Texas Florida California New York Virginia Pennsylvania District of Columbia Arizona Ohio |

### 2. Find top 10 people with maximum no. of accidents along with their address

SELECT P.PERSON\_ID, P.FIRST\_NAME, P.GENDER, P.PHONE, D.LICENSE\_NO,
COUNT(V.ACCIDENT\_ID) AS TOTAL\_NO\_ACCIDENTS, A.SUITE, A.STREET, A.CITY,A.STATE, A.ZIP
FROM VEHICLE V, DRIVER D, PERSON P, ADDRESS A
WHERE P.PERSON\_ID = D.DRIVER\_ID
AND D.DRIVER\_ID = V.DRIVER\_ID
AND P.ADDRESS\_ID = A.ADDRESS\_ID
GROUP BY P.PERSON\_ID
ORDER BY COUNT(V.ACCIDENT\_ID) DESC

### LIMIT 10;

| person_ID | first_name | gender   | phone         | license_no | Total_No_Accidents | suite | street                | city         | state          | zip   |
|-----------|------------|----------|---------------|------------|--------------------|-------|-----------------------|--------------|----------------|-------|
| 302       | Vilma      | Female   | (992) 3903030 | 1448       | 5                  | 281   | 82 Anniversary Street | Charlotte    | North Carolina | 28299 |
| 183       | Ximenez    | Male     | (566) 3386838 | 7151       | 5                  | 415   | 8 Merchant Place      | Youngstown   | Ohio           | 44555 |
| 70        | Lisa       | Female   | (243) 9207915 | 3153       | 5                  | 753   | 84 Gerald Crossing    | South Bend   | Indiana        | 46699 |
| 30        | Barb       | Female   | (942) 3542539 | 8474       | 5                  | 716   | 222 Hansons Center    | Denver       | Colorado       | 80217 |
| 279       | Alexandro  | Male     | (708) 4274785 | 2349       | 5                  | 688   | 048 Spenser Parkway   | Sacramento   | California     | 95828 |
| 59        | Chrystel   | Female   | (719) 3984672 | 1768       | 5                  | 583   | 38234 2nd Plaza       | Texarkana    | Texas          | 75507 |
| 131       | Sybyl      | Female   | (429) 9922271 | 4649       | 5                  | 842   | 1 Straubel Drive      | Jamaica      | New York       | 11480 |
| 16        | Simeon     | Male     | (384) 6815685 | 5443       | 4                  | 387   | 1 Portage Terrace     | Jacksonville | Florida        | 32204 |
| 209       | Katy       | Female   | (969) 3094131 | 3334       | 4                  | 853   | 86 Moose Terrace      | Tucson       | Arizona        | 85743 |
| 141       | Delly      | Bigender | (495) 7875576 | 3156       | 4                  | 424   | 3 Park Meadow Pass    | Sioux Falls  | South Dakota   | 57110 |

## 3. Retrieve the min, max, average and total premium amount company wise.

SELECT IC.COMPANY\_ID, IC.NAME, MIN(I.PREMIUM\_AMOUNT), MAX(I.PREMIUM\_AMOUNT), AVG(I.PREMIUM\_AMOUNT), SUM(I.PREMIUM\_AMOUNT)
FROM INSURANCE I, INSURANCE\_COMPANY IC
WHERE I.INSURANCE\_COMP\_ID = IC.COMPANY\_ID
GROUP BY IC.COMPANY\_ID;

|     | company_ID | name                            | min(i.premium_amount) | max(i.premium_amount) | avg(i.premium_amount) | sum(i.premium_amount) |
|-----|------------|---------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| •   | 95         | Cole-Bode                       | 188                   | 1309                  | 895.3333              | 2686                  |
|     | 133        | Lindgren, Batz and Kohler       | 390                   | 978                   | 770.3333              | 2311                  |
|     | 99         | Casper-Stehr                    | 679                   | 1456                  | 1090.6667             | 9816                  |
|     | 8          | Mertz, Berge and Kassulke       | 828                   | 1158                  | 960.2000              | 4801                  |
|     | 76         | Glover, Lang and Franecki       | 263                   | 1470                  | 787.0000              | 6296                  |
|     | 140        | Gulgowski, Kshlerin and Lebsack | 218                   | 1265                  | 741.3333              | 2224                  |
|     | 67         | Cronin-Paucek                   | 205                   | 1442                  | 953.6667              | 2861                  |
|     | 149 149    | Hagenes Inc                     | 479                   | 1087                  | 819.1250              | 6553                  |
|     | 32         | Stamm LLC                       | 435                   | 1446                  | 917.8000              | 4589                  |
|     | 93         | Hintz, Marvin and Homenick      | 612                   | 1435                  | 1051.5000             | 4206                  |
|     | 77         | Berge Group                     | 407                   | 1361                  | 742.4000              | 3712                  |
|     | 110        | Torp, Cole and Schaefer         | 170                   | 1430                  | 688.1000              | 6881                  |
|     | 48         | Keeling, Mills and Rolfson      | 706                   | 1443                  | 1034.7500             | 4139                  |
|     | 97         | Hirthe-Watsica                  | 219                   | 1380                  | 764.7500              | 3059                  |
| Res | ult 27 ×   |                                 |                       |                       |                       |                       |

# 4. Retrieve total settled amount company wise.

SELECT S.INSURANCE\_COMP\_ID, IC.NAME, S.STATUS, SUM(S.FINAL\_AMOUNT) AS TOTAL\_SETTLEMENT FROM SETTLEMENT S, INSURANCE\_COMPANY IC WHERE S.INSURANCE\_COMP\_ID = IC.COMPANY\_ID AND S.STATUS = 'SETTLED' GROUP BY S.INSURANCE\_COMP\_ID LIMIT 10;

|   | insurance_comp_id | name                       | status  | Total_Settlement |  |
|---|-------------------|----------------------------|---------|------------------|--|
| • | 1                 | Spinka, Sawayn and Wolf    | Settled | 18479            |  |
|   | 2                 | West, Sawayn and Volkman   | Settled | 29574            |  |
|   | 3                 | Kertzmann, Welch and Blick | Settled | 16391            |  |
|   | 4                 | McKenzie and Sons          | Settled | 24286            |  |
|   | 5                 | Harris, West and Hand      | Settled | 18358            |  |
|   | 6                 | Smitham-Rippin             | Settled | 15062            |  |
|   | 7                 | Wilderman-Anderson         | Settled | 24495            |  |
|   | 8                 | Mertz, Berge and Kassulke  | Settled | 13084            |  |
|   | 10                | Lesch LLC                  | Settled | 17311            |  |
|   | 11                | Kihn, Kutch and Senger     | Settled | 17519            |  |

#### 5. Find car brand that are least reliable

SELECT BRAND, COUNT(ACCIDENT\_ID) FROM VEHICLE GROUP BY BRAND ORDER BY COUNT(ACCIDENT\_ID) ASC LIMIT 10;



## 6. Retrieve insurance company state wise with maximum number of registered vehicles.

SELECT V.STATE, IC.NAME, COUNT(I.INSURANCE\_ID) AS NO\_OF\_INSURANCES FROM INSURANCE I, INSURANCE\_COMPANY IC, VEHICLE V WHERE I.VEHICLE\_REG\_NO = V.REGISTRATION\_NO AND I.INSURANCE\_COMP\_ID = IC.COMPANY\_ID GROUP BY V.STATE LIMIT 10;

|   | state          | name                       | No_of_Insurances |
|---|----------------|----------------------------|------------------|
| • | Pennsylvania   | West, Sawayn and Volkman   | 18               |
|   | Florida        | West, Sawayn and Volkman   | 69               |
|   | Virginia       | West, Sawayn and Volkman   | 37               |
|   | West Virginia  | West, Sawayn and Volkman   | 7                |
|   | Texas          | Kertzmann, Welch and Blick | 74               |
|   | North Carolina | Kertzmann, Welch and Blick | 18               |
|   | Colorado       | Kertzmann, Welch and Blick | 22               |
|   | Illinois       | Kertzmann, Welch and Blick | 31               |
|   | Minnesota      | McKenzie and Sons          | 18               |
|   | New York       | McKenzie and Sons          | 41               |

# 7. Retrieve state with highest accidents

SELECT STATE, COUNT(ACCIDENT\_ID)
FROM ACCIDENT
GROUP BY STATE
ORDER BY COUNT(ACCIDENT\_ID) DESC
LIMIT 10;

|   | state                | count(accident_id) |
|---|----------------------|--------------------|
| ١ | Texas                | 123                |
|   | California           | 94                 |
|   | Florida              | 71                 |
|   | New York             | 53                 |
|   | Virginia             | 45                 |
|   | District of Columbia | 38                 |
|   | Colorado             | 35                 |
|   | Illinois             | 34                 |
|   | Ohio                 | 34                 |
|   | Georgia              | 30                 |

# 8. Find details of people whose claim amount > 5000 USD alng with date

SELECT P.PERSON\_ID, P.FIRST\_NAME, P.LAST\_NAME, P.GENDER, P.EMAIL, C.DATE, C.TOTAL\_AMOUNT
FROM PERSON P, CLAIM C
WHERE P.PERSON\_ID = C.PERSON\_ID
AND C.TOTAL\_AMOUNT > 5000
GROUP BY P.PERSON\_ID;

|   | PERSON_ID | FIRST_NAME | LAST_NAME | GENDER | EMAIL                    | DATE       | TOTAL_AMOUNT |    |
|---|-----------|------------|-----------|--------|--------------------------|------------|--------------|----|
| ٠ | 2         | Gonzales   | Hagart    | Male   | ghagart1@zimbio.com      | 2022-05-29 | 6896         |    |
|   | 4         | Liesa      | Boodle    | Female | lboodle3@amazon.de       | 2019-09-10 | 8228         |    |
|   | 6         | Larina     | Larroway  | Female | HULL                     | 2022-08-15 | 9395         |    |
|   | 7         | Lorilee    | Spanton   | Female | Ispanton6@unc.edu        | 2020-08-08 | 6732         |    |
|   | 8         | Richmound  | Clackers  | Male   | rdackers7@discuz.net     | 2019-03-14 | 8030         |    |
|   | 9         | Lemmie     | Kynson    | Male   | lkynson8@marketwatch.com | 2019-09-04 | 9493         |    |
|   | 10        | Ruthann    | Hanvey    | Female | rhanvey9@soup.io         | 2021-04-07 | 5059         | 50 |
|   | 11        | Edy        | Fahy      | Female | efahya@sitemeter.com     | 2020-09-04 | 8093         | -  |
|   |           |            |           |        |                          |            |              |    |

## 9. Find number of vehicles which are insured and which are not

SELECT I.STATUS, COUNT(V.REGISTRATION\_NO)

FROM VEHICLE V, INSURANCE I

WHERE V.REGISTRATION\_NO = I.VEHICLE\_REG\_NO

**GROUP BY I.STATUS**;



# 10. Find insurance company that offered highest settlement

SELECT IC.NAME, MAX(S.FINAL\_AMOUNT)

FROM INSURANCE\_COMPANY IC, SETTLEMENT S

WHERE S.INSURANCE\_COMP\_ID = IC.COMPANY\_ID

AND S.STATUS = 'SETTLED';

|   | name                    | max(s.final_amount) |
|---|-------------------------|---------------------|
| • | Spinka, Sawayn and Wolf | 9991                |