

Univariate Reports Exercises

Univariate Report Exercises

A univariate report counts something by one variable. Therefore, your report result will have two columns: one for the variable, which is called the **univariate variable**, and one for the count. The count can be:

- Number of Crashes
- Number of Persons
- Number of Vehicles/Drivers

The process for creating a report with 2010 data differs from using data from previous years. Therefore, each exercise is repeated using the two different processes.

In the following exercises, a superscript letter next to a variable indicates the table in which it appears:

2010	2009 and Earlier
C = Crash	C = Crash
V = Vehicle	V = Vehicle
R = Precrash	D = Driver
D = Driver	P = Person
O = Occupant	
N = Non-Occupant	
B = Bike	
W = Pedestrian	

Exercise 1: For 2010 Data

Report Title:	Crashes by Month
Year:	2010
Variables:	Crash Month ^C
Condition Criteria:	State = [your state]
Univariate Variable:	Crash Month
Count:	Number of Crashes
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2010** and then click the **Submit** button.
2. The variable, **Crash Month**, is in the **Crash** table, so on the **Step 2: Choose the Tables to Query** screen, you can select any one of the options at the bottom of the screen. Then, click the **Submit** button.
3. On the **Step 3: Choose Variables to Use** screen, from the **Crash** table, select **Crash Month** and then click the **Submit** button.
4. On the **Step 4: Choose Condition Criteria** screen, the **State** box should display your state. Leave **Crash Month** at **All** and then click the **Univariate Tabulation** button.
5. On the **Step 5: Choose Report Format Options** screen:
 - From the **Select a Variable** drop-down list, select **Crash Month**.
 - From the **Select Data to Count** drop-down list, select **Number of Crashes**.
 - In the **Report Title** box, type **Crashes by Month**.
 - Click the **Submit** button.
6. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 1: For 2009 (or Earlier) Data

Report Title:	Crashes by Month
Year:	2009
Variables:	Crash Month ^C
Condition Criteria:	State = [your state]
Univariate Variable:	Crash Month
Count:	Number of Crashes
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2009** and then click the **Submit** button.
2. On the **Step 2: Choose Variables to Use** screen, select **Crash Month^C** and then click the **Submit** button.
3. On the **Step 3: Choose Condition Criteria** screen, the **State** box should display your state. Leave **Crash Month** at **All** and then click the **Univariate Tabulation** button.
4. On the **Step 4: Choose Report Format Options** screen:
 - From the **Select a Variable** drop-down list, select **Crash Month**.
 - From the **Select Data to Count** drop-down list, select **Number of Crashes**.
 - In the **Report Title** box, type **Crashes by Month**.
 - Click the **Submit** button.
5. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 2: For 2010 Data

Report Title:	Fatalities by Crash Month
Year:	2010
Variables:	Crash Month ^C , Injury Severity ^O
Condition Criteria:	State = [your state] Injury Severity = Fatal Injury (K)
Univariate Variable:	Crash Month
Count:	Number of Persons
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2010** and then click the **Submit** button.
2. The variable **Crash Month** is in the **Crash** table and the variable **Injury Severity** is in the **Occupant** table. Therefore, on the **Step 2: Choose the Tables to Query** screen, select **Option 1** and then click the **Submit** button.
3. On the **Step 3: Choose Variables to Use** screen, select **Crash Month^C** and **Injury Severity^O** and then click the **Submit** button.
4. On the **Step 4: Choose Condition Criteria** screen:
 - From **State**, your state should be selected by default.
 - Leave **Crash Month** at the default, **All**.
 - From **Injury Severity**, select **(4)Fatal Injury (K)**.
 - Click the **Univariate Tabulation** button.
5. On the **Step 5: Choose Report Format Options** screen:
 - From the **Select a Variable** drop-down list, select **Crash Month**.
 - From the **Select Data to Count** drop-down list, select **Number of Persons**.
 - In the **Report Title** box, type **Fatalities by Crash Month**.
 - Click the **Submit** button.

6. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 2: For 2009 (or Earlier) Data

Report Title:	Fatalities by Crash Month
Year:	2009
Variables:	Crash Month ^C , Injury Severity ^P
Condition Criteria:	State = [your state] Injury Severity = Fatal Injury (K)
Univariate Variable:	Crash Month
Count:	Number of Persons
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2009** and then click the **Submit** button.
2. On the **Step 2: Choose Variables to Use** screen, select **Crash Month^C** and **Injury Severity^P** and then click the **Submit** button.
3. On the **Step 3: Choose Condition Criteria** screen:
 - From **State**, your state should be selected by default.
 - Leave **Crash Month** at the default, **All**
 - From **Injury Severity**, select **Fatal Injury (K)**.
 - Click the **Univariate Tabulation** button.
4. On the **Step 4: Choose Report Format Options** screen:
 - From the **Select a Variable** drop-down list, select **Crash Month**.
 - From the **Select Data to Count** drop-down list, select **Number of Persons**.
 - In the **Report Title** box, type **Fatalities by Crash Month**.
 - Click the **Submit** button.

5. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 3: For 2010 Data

Report Title:	Fatalities by Day of Week
Year:	2010
Variables:	Day of Week ^C , Injury Severity ^O
Condition Criteria:	State = [your state] Injury Severity = Fatal Injury (K)
Univariate Variable:	Day of Week
Count:	Number of Persons
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2010** and then click the **Submit** button.
2. The variable **Day of Week** is in the **Crash** table and the variable **Injury Severity** is in the **Occupant** table. Therefore, on the **Step 2: Choose the Tables to Query** screen, select **Option 1** and then click the **Submit** button.
3. On the **Step 3: Choose Variables to Use** screen, select **Day of Week^C** and **Injury Severity^O** and then click the **Submit** button.
4. On the **Step 4: Choose Condition Criteria** screen:
 - From **State**, your state should be selected by default.
 - Leave **Day of Week** at the default, **All**.
 - From **Injury Severity**, select **Fatal Injury (K)**.
 - Click the **Univariate Tabulation** button.
5. On the **Step 5: Choose Report Format Options** screen:
 - From the **Select a Variable** drop-down list, select **Day of Week**.
 - From the **Select Data to Count** drop-down list, select **Number of Persons**.

- In the **Report Title** box, type **Fatalities by Day of Week**.
 - Click the **Submit** button.
6. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 3: For 2009 (or Earlier) Data

Report Title:	Fatalities by Day of Week
Year:	2009
Variables:	Day of Week ^C , Injury Severity ^P
Condition Criteria:	State = [your state] Injury Severity = Fatal Injury (K)
Univariate Variable:	Day of Week
Count:	Number of Persons
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2009** and then click the **Submit** button.
2. On the **Step 2: Choose Variables to Use** screen, select **Day of Week^C** and **Injury Severity^P** and then click the **Submit** button.
3. On the **Step 3: Choose Condition Criteria** screen:
 - From **State**, your state should be selected by default.
 - Leave **Day of Week** at the default, **All**.
 - From **Injury Severity**, select **Fatal Injury (K)**.
 - Click the **Univariate Tabulation** button.
4. On the **Step 4: Choose Report Format Options** screen:
 - From the **Select a Variable** drop-down list, select **Day of Week**.
 - From the **Select Data to Count** drop-down list, select **Number of Persons**.

- In the **Report Title** box, type **Fatalities by Day of Week**.
 - Click the **Submit** button.
5. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 4: For 2010 Data

Report Title:	Motorcycle Occupant Fatalities by County
Year:	2010
Variables:	County ^C , Injury Severity ^O , Person Type ^O , Body Type ^V
Condition Criteria:	State = [your state] Injury Severity = Fatal Injury (K) Person Type = 1, 2, 9 Body Type = 80, 81, 82, 83, 88, 89
Univariate Variable:	County
Count:	Number of Persons
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2010** and then click the **Submit** button.
2. The variable **County** is in the **Crash** table, the variables **Injury Severity** and **Person Type** are in the **Occupant** table, and the variable **Body Type** is in the **Vehicle** table. Therefore, on the **Step 2: Choose the Tables to Query** screen, select **Option 1** and then click the **Submit** button.
3. On the **Step 3: Choose Variables to Use** screen, select **County^C**, **Injury Severity^O**, **Person Type^O**, and **Body Type^V** and then click the **Submit** button.
4. On the **Step 4: Choose Condition Criteria** screen:
 - From **State**, your state should be selected by default.
 - For **County**, leave the default , **All**.
 - From **Injury Severity**, select **Fatal Injury (K)**.

- From **Person Type**, select **1, 2, 9** (make multiple selections by clicking the first selection and then holding down the **Ctrl** key while you click the remaining selections).
 - From **Body Type**, select **80, 81, 82, 83, 88, 89**.
 - Click the **Univariate Tabulation** button.
5. On the **Step 5: Choose Report Format Options** screen:
 - From the **Select a Variable** drop-down list, select **County**.
 - From the **Select Data to Count** drop-down list, select **Number of Persons**.
 - In the **Report Title** box, type **Motorcycle Occupant Fatalities by County**.
 - Click the **Submit** button.
 6. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 4: For 2009 (or Earlier) Data

Report Title:	Motorcycle Occupant Fatalities by County
Year:	2009
Variables:	County ^C , Injury Severity ^P , Person Type ^P , Body Type ^V
Condition Criteria:	State = [your state] Injury Severity = Fatal Injury (K) Person Type = 1, 2, 9 Body Type = 80, 81, 82, 83, 88, 89
Univariate Variable:	County
Count:	Number of Persons
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2009** and then click the **Submit** button.
2. On the **Step 2: Choose Variables to Use** screen, select **County^C, Injury Severity^P, Person Type^P, and Body Type^V** and then click the **Submit** button.

3. On the **Step 3: Choose Condition Criteria** screen:
 - From **State**, your state should be selected by default.
 - For **County**, leave the default , **All**.
 - From **Injury Severity**, select **Fatal Injury (K)**.
 - From **Person Type**, select **1, 2, 9** (make multiple selections by clicking the first selection and then holding down the **Ctrl** key while you click the remaining selections).
 - From **Body Type**, select **80, 81, 82, 83, 88, 89**.
 - Click the **Univariate Tabulation** button.
4. On the **Step 4: Choose Report Format Options** screen:
 - From the **Select a Variable** drop-down list, select **County**.
 - From the **Select Data to Count** drop-down list, select **Number of Persons**.
 - In the **Report Title** box, type **Motorcycle Occupant Fatalities by County**.
 - Click the **Submit** button.
5. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 5: For 2010 Data

Report Title:	Pedestrian Fatalities by County
Year:	2010
Variables:	County ^C , Injury Severity ^N , Person Type ^N
Condition Criteria:	State = [your state] Injury Severity = Fatal Injury (K) Person Type = Pedestrian (5)
Univariate Variable:	County
Count:	Number of Persons
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2010** and then click the **Submit** button.
2. The variable **County** is in the **Crash** table, the variables **Injury Severity** and **Person Type** for a pedestrian are in the **Non Occupant** table. Therefore, on the **Step 2: Choose the Tables to Query** screen, select **Option 2** and then click the **Submit** button.
3. On the **Step 3: Choose Variables to Use** screen, select **County^C**, **Injury Severity^N**, and **Person Type^N** and then click the **Submit** button.
4. On the **Step 4: Choose Condition Criteria** screen:
 - From **State**, your state should be selected by default.
 - Leave **County** blank so all counties will be displayed.
 - From **Injury Severity**, select **Fatal Injury (K)**.
 - From **Person Type**, select **(5)Pedestrian**.
 - Click the **Univariate Tabulation** button.
5. On the **Step 4: Choose Report Format Options** screen:
 - From the **Select a Variable** drop-down list, select **County**.
 - From the **Select Data to Count** drop-down list, select **Number of Persons**.
 - In the **Report Title** box, type **Pedestrian Fatalities by County**.

- Click the **Submit** button.
6. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 5: For 2009 (or Earlier) Data

Report Title:	Pedestrian Fatalities by County
Year:	2009
Variables:	County ^C , Injury Severity ^P , Person Type ^P
Condition Criteria:	State = [your state] Injury Severity = Fatal Injury (K) Person Type = Pedestrian (5)
Univariate Variable:	County
Count:	Number of Persons
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2009** and then click the **Submit** button.
2. On the **Step 2: Choose Variables to Use** screen, select **County^C**, **Injury Severity^P** and **Person Type^P** and then click the **Submit** button.
3. On the **Step 3: Choose Condition Criteria** screen:
 - From **State**, your state should be selected by default.
 - Leave **County** at the default, **All**.
 - From **Injury Severity**, select **Fatal Injury (K)**.
 - From **Person Type**, select **Pedestrian**.
 - Click the **Univariate Tabulation** button.
4. On the **Step 4: Choose Report Format Options** screen:
 - From the **Select a Variable** drop-down list, select **County**.
 - From the **Select Data to Count** drop-down list, select **Number of Persons**.

- In the **Report Title** box, type **Pedestrian Fatalities by County**.
 - Click the **Submit** button.
5. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 6: For 2010 Data

Report Title:	Vehicle Body Type by Fatal Injury at Work
Year:	2010
Variables:	Fatal Injury at Work ^O , Body Type ^V
Condition Criteria:	State = [your state] Fatal Injury at Work = Yes (1)
Univariate Variable:	Body Type
Count:	Number of Vehicles/Drivers
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2010** and then click the **Submit** button.
2. The variable **Fatal Injury at Work** is in the **Occupant** table and the variable **Body Type** is in the **Vehicle** table. Therefore, on the **Step 2: Choose the Tables to Query** screen, select **Option 1** and then click the **Submit** button.
3. On the **Step 3: Choose Variables to Use** screen, select **Fatal Injury at Work^O** and **Body Type^V**, and then click the **Submit** button.
4. On the **Step 4: Choose Condition Criteria** screen:
 - From **State**, your state should be selected by default.
 - From **Fatal Injury at Work**, select **Yes**.
 - Leave **Body Type** at the default, **All**.
 - Click the **Univariate Tabulation** button.
5. On the **Step 5: Choose Report Format Options** screen:

- From the **Select a Variable** drop-down list, select **Body Type**.
 - From the **Select Data to Count** drop-down list, select **Number of Vehicles/Drivers**.
 - In the **Report Title** box, type **Vehicle Body Type for Fatal Injury at Work**.
 - Click the **Submit** button.
6. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 6: For 2009 (or Earlier) Data

Report Title:	Vehicle Body Type by Fatal Injury at Work
Year:	2009
Variables:	Fatal Injury at Work ^P , Body Type ^V
Condition Criteria:	State = [your state] Fatal Injury at Work = Yes (1)
Univariate Variable:	Body Type
Count:	Number of Vehicles/Drivers
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2009** and then click the **Submit** button.
2. On the **Step 2: Choose Variables to Use** screen, select **Fatal Injury at Work^P** and **Body Type^V** and then click the **Submit** button.
3. On the **Step 3: Choose Condition Criteria** screen:
 - From **State**, your state should be selected by default.
 - From **Fatal Injury at Work**, select **Yes**.
 - Leave **Body Type** at the default, **All**.
 - Click the **Univariate Tabulation** button.
4. On the **Step 4: Choose Report Format Options** screen:

- From the **Select a Variable** drop-down list, select **Body Type**.
 - From the **Select Data to Count** drop-down list, select **Number of Vehicles/Drivers**.
 - In the **Report Title** box, type **Vehicle Body Type for Fatal Injury at Work**.
 - Click the **Submit** button.
5. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 7: For 2010 Data

Report Title:	Drivers Involved in Fatal Crashes by License State
Year:	2010
Variables:	License State ^D
Condition Criteria:	State = [your state]
Univariate Variable:	Driver's License State
Count:	Number of Vehicles/Drivers
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2010** and then click the **Submit** button.
2. The variable **Driver's License State** is in the **Driver** table. Therefore, on the **Step 2: Choose the Tables to Query** screen, select **Option 1** and then click the **Submit** button.
3. On the **Step 3: Choose Variables to Use** screen, select **License State^D** and then click the **Submit** button.
4. On the **Step 4: Choose Condition Criteria** screen:
 - From **State**, your state should be selected by default.
 - Leave **Driver's License State** at the default, **All**.
 - Click the **Univariate Tabulation** button.
5. On the **Step 5: Choose Report Format Options** screen:

- From the **Select a Variable** drop-down list, select **Driver's License State**.
 - From the **Select Data to Count** drop-down list, select **Number of Vehicles/Drivers**.
 - In the **Report Title** box, type **Drivers Involved in Fatal Crashes by License State**.
 - Click the **Submit** button.
6. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 7: For 2009 (or Earlier) Data

Report Title:	Drivers Involved in Fatal Crashes by License State
Year:	2009
Variables:	Driver's License State ^D
Condition Criteria:	State = [your state]
Univariate Variable:	License State
Count:	Number of Vehicles/Drivers
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2009** and then click the **Submit** button.
2. On the **Step 2: Choose Variables to Use** screen, select **Driver's License State^D** and then click the **Submit** button.
3. On the **Step 3: Choose Condition Criteria** screen:
 - From **State**, your state should be selected by default.
 - Leave **Driver's License State** and the default, **All**.
 - Click the **Univariate Tabulation** button.
4. On the **Step 4: Choose Report Format Options** screen:
 - From the **Select a Variable** drop-down list, select **Driver's License State**.

- From the **Select Data to Count** drop-down list, select **Number of Vehicles/Drivers**.
 - In the **Report Title** box, type **Drivers Involved in Fatal Crashes by License State**.
 - Click the **Submit** button.
5. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 8: For 2010 Data

Report Title:	Vehicles Involved by Rollover Occurrence
Year:	2010
Variables:	Rollover ^V
Condition Criteria:	State = [your state]
Univariate Variable:	Rollover
Count:	Number of Vehicles/Drivers
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2010** and then click the **Submit** button.
2. The variable **Rollover** is in the **Vehicle** table. Therefore, on the **Step 2: Choose the Tables to Query** screen, select **Option 1** and then click the **Submit** button.
3. On the **Step 3: Choose Variables to Use** screen, select **Rollover^V** and then click the **Submit** button.
4. On the **Step 4: Choose Condition Criteria** screen:
 - From **State**, your state should be selected by default.
 - Leave **Rollover** at the default, **All**.
 - Click the **Univariate Tabulation** button.
5. On the **Step 5: Choose Report Format Options** screen:
 - From the **Select a Variable** drop-down list, select **Rollover**.

- From the **Select Data to Count** drop-down list, select **Number of Vehicles/Drivers**.
 - In the **Report Title** box, type **Vehicles Involved by Rollover Occurrence**.
 - Click the **Submit** button.
6. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.

Exercise 8: For 2009 (or Earlier) Data

Report Title:	Vehicles Involved by Rollover Occurrence
Year:	2009
Variables:	Rollover ^V
Condition Criteria:	State = [your state]
Univariate Variable:	Rollover
Count:	Number of Vehicles/Drivers
Grouping Options:	None

Step-by-Step Directions

1. On the **Step 1: Choose a Year** screen, select **2009** and then click the **Submit** button.
2. On the **Step 2: Choose Variables to Use** screen, select **Rollover^V** and then click the **Submit** button.
3. On the **Step 3: Choose Condition Criteria** screen:
 - From **State**, your state should be selected by default.
 - Leave **Rollover** at the default, **All**.
 - Click the **Univariate Tabulation** button.
4. On the **Step 4: Choose Report Format Options** screen:
 - From the **Select a Variable** drop-down list, select **Rollover**.
 - From the **Select Data to Count** drop-down list, select **Number of Vehicles/Drivers**.

- In the **Report Title** box, type **Vehicles Involved by Rollover Occurrence**.
 - Click the **Submit** button.
5. Review your report and then click the **Back to Step 1** button to return to the **Step 1: Choose a Year** screen.