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| --- | --- | --- | --- |
| Hypothesis | X-SQUARE | P-value | Interpretation |
| **Null Hypothesis:** The status of diabetes and gender classification are not related  **Alternative hypothesis:** The status of diabetes and gender classification are related. | 139 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |
| **Null Hypothesis:** The status of diabetes and High Blood Pressure are not related  **Alternative hypothesis:** The status of diabetes and High Blood Pressure are related. | 10288 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |
| **Null Hypothesis:** The status of diabetes and High Cholesterol are not related  **Alternative hypothesis:** The status of diabetes and Cholesterol are related. | 5912 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |
| **Null Hypothesis:** The status of diabetes and cholesterol check are not related  **Alternative hypothesis:** The status of diabetes and cholesterol check are related. | 940 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |
| **Null Hypothesis:** The status of diabetes and smoking are not related  **Alternative hypothesis:** The status of diabetes and smoking are related. | 522 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |

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| --- | --- | --- | --- |
| Hypothesis | X-SQUARE | P-value | Interpretation |
| **Null Hypothesis:** The status of diabetes and heart disease or heart attack are not related  **Alternative hypothesis:** The status of diabetes and heart disease or heart attack are related. | 3162 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |
| **Null Hypothesis:** The status of diabetes and physical exercise are not related  **Alternative hypothesis:** The status of diabetes and physical exercise are related. | 1779 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |
| **Null Hypothesis:** The status of diabetes and regular fruits intake are not related  **Alternative hypothesis:** The status of diabetes and regular fruits intake are related. | 207 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |
| **Null Hypothesis:** The status of diabetes and eating vegetables regularly are not related  **Alternative hypothesis:** The status of diabetes and eating vegetables regularly are related. | 444 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |
| **Null Hypothesis:** The status of diabetes and high alcohol intake are not related  **Alternative hypothesis:** The status of diabetes and high alcohol intake are related.  **Null Hypothesis:** The status of diabetes and difficulty in walking are not related  **Alternative hypothesis:** The status of diabetes and difficulty in walking are related. | 635  5254 | 0.000  0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative.  Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |
| **Null Hypothesis:** The status of diabetes and any health care are not related  **Alternative hypothesis:** The status of diabetes and any health care are related. | 38 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |
| **Null Hypothesis:** The status of diabetes and no doctor cost are not related  **Alternative hypothesis:** The status of diabetes and no doctor cost are related. | 118 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |
| **Null Hypothesis:** The status of diabetes and general health are not related  **Alternative hypothesis:** The status of diabetes and general health are related. | 12304 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |
| **Null Hypothesis:** The status of diabetes and education are not related  **Alternative hypothesis:** The status of diabetes and education are related. | 2132 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |
| **Null Hypothesis:** The status of diabetes and income are not related  **Alternative hypothesis:** The status of diabetes and income are related. | 38 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |
| **Null Hypothesis:** The status of diabetes and sex are not related  **Alternative hypothesis:** The status of diabetes and sex are related. | 139 | 0.000 | Since the p-value is less than 0.05, then we can reject the null hypothesis and accept the alternative. |