**Introduction**

By focusing on the information available in the City of Chicago Food Inspection we can create a business opportunity by providing accurate information as well as insights about the conditions on how many of food providers do business in the City of Chicago.

**About the Data**

The Chicago Department of Public Health has  a Food Protection Program, where a  field inspector visit different business that handle food following a determine form and then the data is reviewed by a State of Illinois Licensed Environmental Health Practitioner. This data is updated every Friday, and goes all the way back until 2010, when the program started.

 There are different ways to download the data, we are working with its Excel and cvs format. The data is compose of string, number, address, dates, gps location fields. All but one of the columns on this data is structure, and are divided in 17 columns and there are 100,730 since the last updated Friday, March 6, 2015. With a size of approximately 70Mb

|  |  |  |
| --- | --- | --- |
| **​Column Name** | **​Column Description** | **​Data Type** |
| ​inspection\_id | ​Number to identify inspection | ​Number |
| ​dba\_name | ​Doing Business as | ​Plain Text (String) |
| ​aka\_name | ​Also Know as | ​​Plain Text (String) |
| ​license\_ | ​Dpt of Business Affairs unique number | ​​Number |
| ​facility\_type | ​Type of business | ​​Plain Text (String) |
| ​risk | ​Risk to public health | ​​Plain Text (String) |
| ​address | ​Street address of the business | ​​Plain Text (String) |
| ​city | ​City where the business is located | ​​Plain Text (String) |
| ​state | State where the business is located | ​​Plain Text (String) |
| ​zip | ​Business Zip code | ​Number |
| ​inspection\_date | ​Date of the inspection | ​Data & Time |
| ​inspection\_type | ​There are 7 different type of inspections | ​​Plain Text (String) |
| ​results | ​Result of the inspection | ​​Plain Text (String) |
| ​violations | ​Health code violated by the business | ​​Plain Text (String) |
| ​latitude | ​​​latitude of the business | ​Number |
| ​longitude | ​​longitude of the business | ​Number |
| ​location | ​​latitude and ​longitude of the business | ​Location |

**Description of the Data**

**Inspection type**

* **Canvass:** Random check of the business.
* **Consultation:** When a business is going to open for the first time.
* **Complain:** When a complain about the business is filed.
* **License:** When a business is obtaining a particular license.
* **Suspect food poisoning:** When a business is suspected of making a person ill.
* **Task-force inspection:** Bar or tavern inspection.
* **Re-inspection:** After one of the previous inspections is performed.

**Results**

* **Pass:** When no critical violations are found.
* **Pass with conditions:** When a critical violation is found but its corrected during the inspection.
* **Fail:** A critical violation that couldnt be fix during the inspection.
* **Others:** Business not located, out of business, no entry.

**Risk** (To affect public health)

* **Risk 1: High**
* **Risk 2: Medium**
* **Risk 3: Low**