# Store Data Summary

## Head of Store Data

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Store | StoreType | Assortment | CompetitionDistance | CompetitionOpenSinceMonth | CompetitionOpenSinceYear | Promo2 | Promo2SinceWeek | Promo2SinceYear | PromoInterval |
| 1 | c | a | 1270.0 | 9.0 | 2008.0 | 0 | nan | nan | nan |
| 2 | a | a | 570.0 | 11.0 | 2007.0 | 1 | 13.0 | 2010.0 | Jan,Apr,Jul,Oct |
| 3 | a | a | 14130.0 | 12.0 | 2006.0 | 1 | 14.0 | 2011.0 | Jan,Apr,Jul,Oct |
| 4 | c | c | 620.0 | 9.0 | 2009.0 | 0 | nan | nan | nan |
| 5 | a | a | 29910.0 | 4.0 | 2015.0 | 0 | nan | nan | nan |

## Info of Store Data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 | Store | 1115 | non-null | int64 |
| 1 | StoreType | 1115 | non-null | object |
| 2 | Assortment | 1115 | non-null | object |
| 3 | CompetitionDistance | 1112 | non-null | float64 |
| 4 | CompetitionOpenSinceMonth | 761 | non-null | float64 |
| 5 | CompetitionOpenSinceYear | 761 | non-null | float64 |
| 6 | Promo2 | 1115 | non-null | int64 |
| 7 | Promo2SinceWeek | 571 | non-null | float64 |
| 8 | Promo2SinceYear | 571 | non-null | float64 |
| 9 | PromoInterval | 571 | non-null | object |

## Describe of Store Data

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Store | CompetitionDistance | CompetitionOpenSinceMonth | CompetitionOpenSinceYear | Promo2 | Promo2SinceWeek | Promo2SinceYear |
| 1115.0 | 1112.0 | 761.0 | 761.0 | 1115.0 | 571.0 | 571.0 |
| 558.0 | 5404.901079136691 | 7.2247043363994745 | 2008.6688567674114 | 0.5121076233183857 | 23.595446584938703 | 2011.7635726795097 |
| 322.0170802923348 | 7663.174720367944 | 3.2123477966147096 | 6.195982559329074 | 0.5000776843468315 | 14.141983542922194 | 1.6749350926066549 |
| 1.0 | 20.0 | 1.0 | 1900.0 | 0.0 | 1.0 | 2009.0 |
| 279.5 | 717.5 | 4.0 | 2006.0 | 0.0 | 13.0 | 2011.0 |
| 558.0 | 2325.0 | 8.0 | 2010.0 | 1.0 | 22.0 | 2012.0 |
| 836.5 | 6882.5 | 10.0 | 2013.0 | 1.0 | 37.0 | 2013.0 |
| 1115.0 | 75860.0 | 12.0 | 2015.0 | 1.0 | 50.0 | 2015.0 |

## Missing Values Table

|  |  |
| --- | --- |
| Feature | Missing Values(%) |
| Store | 0.0 |
| StoreType | 0.0 |
| Assortment | 0.0 |
| CompetitionDistance | 0.0026905829596412557 |
| CompetitionOpenSinceMonth | 0.31748878923766816 |
| CompetitionOpenSinceYear | 0.31748878923766816 |
| Promo2 | 0.0 |
| Promo2SinceWeek | 0.48789237668161434 |
| Promo2SinceYear | 0.48789237668161434 |
| PromoInterval | 0.48789237668161434 |

## handle for competition distance missing value

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Store | StoreType | Assortment | CompetitionDistance | CompetitionOpenSinceMonth | CompetitionOpenSinceYear | Promo2 | Promo2SinceWeek | Promo2SinceYear | PromoInterval | HasCompetition |
| 291 | d | a | nan | nan | nan | 0 | nan | nan | nan | 0 |
| 622 | a | c | nan | nan | nan | 0 | nan | nan | nan | 0 |
| 879 | d | a | nan | nan | nan | 1 | 5.0 | 2013.0 | Feb,May,Aug,Nov | 0 |

## Filtered Data with Sales=0 but other columns not equal to 0

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Store | DayOfWeek | Date | Sales | Customers | Open | Promo | StateHoliday | SchoolHoliday |
| 1100 | 2 | 29/04/2014 | 0 | 3 | 1 | 1 | 0 | 0 |
| 948 | 4 | 25/04/2013 | 0 | 5 | 1 | 1 | 0 | 0 |