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TLCPL

report: IT Helpdesk ticket analysis

# IT Helpdesk Ticket Analysis

## Executive Summary

For this project, all helpdesk tickets from http://helpdesk.toledolibrary.org were exported from the server and imported into a python programming environment to analyze the data and answer the following questions:

* How many tickets has each agency submitted?
* What is the average amount of time it takes IT to resolve reported issues?
* How can we use the data to make things more efficient and improve customer service?

## Findings

**Source**: Total Helpdesk tickets from July 25, 2017 to December 30, 2022.

### Descriptive statistics:

**Total Helpdesk tickets:** 7,235 tickets

**What was the average number of tickets per agency?**

There are 54 agencies that submitted tickets. Therefore, the average number of tickets per agency is approximately 134 tickets.

**Who had the greatest number of tickets? And who had the least number of tickets?**

West Toledo Branch had the most tickets at a total of 516 tickets. External and Governmental Affairs and Virtual Services has the least number of tickets with just one ticket each.

**What are the total number of tickets for each quartile (25%, 5%0, 75%)?**

25 percent of the agencies had 28 tickets or less. 50 percent of the agencies had 89 tickets or less. And 75 percent of the agencies had 220 tickets or less.

**How long did it take for IT staff to resolve tickets?**

The average amount of time it took to resolve tickets is approximately seven days. 50 percent of the tickets were resolved in one day or less. 75 percent of the tickets were resolved in five days or less. The maximum amount of time it took to resolve a ticket is 343 days.  
*NOTE: This analysis ignored any tickets that took longer than one year to resolve.*

\*Please see the Chart section for a graph of all tickets per agency.

## Map of all TLCPL library locations

Map

Description automatically generated

## Charts

### Helpdesk tickets per agency

Chart, histogram

Description automatically generated

### Helpdesk tickets per physical location

Chart, histogram

Description automatically generated

|  |  |  |  |
| --- | --- | --- | --- |
| Branch or Department | Total Tickets | Branch or Department | Total Tickets |
| MAIN | 2095 | LOCKE | 248 |
| WEST TOLEDO | 516 | KENT | 222 |
| SANGER | 406 | WATERVILLE | 220 |
| KING ROAD | 399 | TOLEDO HEIGHTS | 187 |
| REYNOLDS CORNERS | 344 | HEATHERDOWNS | 186 |
| OREGON | 334 | BIRMINGHAM | 174 |
| SYLVANIA | 298 | MAUMEE | 169 |
| HOLLAND | 275 | POINT PLACE | 151 |
| MOTT | 267 | SOUTH | 110 |
| WASHINGTON | 259 | MOBILE SERVICES | 79 |
| LAGRANGE | 257 | OUTREACH | 39 |

## References