IT TICKET ANALYSIS

Naveen Varjani (28 December 2024)

Introduction & Objectives

Introduction:

This project analyzes IT ticket resolution to improve performance and satisfaction.

Objectives:

- Evaluate agent performance metrics.
- Analyze resolution times and employee satisfaction.
- Provide data-driven recommendations for improvement.



Data Overview Content

Dataset Summary:

- Total Attributes: 16.
- No missing or inconsistent values.
- Timeframe: 2016–2020.

Key Metrics:

• Ticket volumes, resolution times, satisfaction rates.

Methodology Content

Steps Taken:

- Data cleaning and preprocessing.
- Used pivot tables for insights.
- Key formulas: VLOOKUP, DATEDIF, AVERAGE.

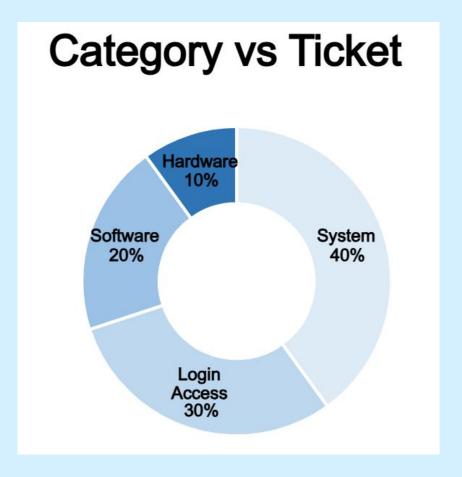
Tools Used: Excel for dashboards, slicers, and visualizations.

Ticket Volumes and Categories

Average daily ticket volume: 53.34.

Distribution:

- Hardware: 9,733 tickets.
- Login Access: 29,193 tickets.
- Software: 19,570 tickets.
- System: 39,002 tickets.



Resolution Time and Satisfaction

Average Resolution Time: 4.55 days.

Average Satisfaction Rate: 4.10 (out of 5).

Correlation: Higher severity = faster resolution (e.g., urgent: 2 days).

Avg Resolution Time Avg Tickets per Agent Avg Satisfaction Rating 4.55 Days 1949.96 4.10



Agent Performance

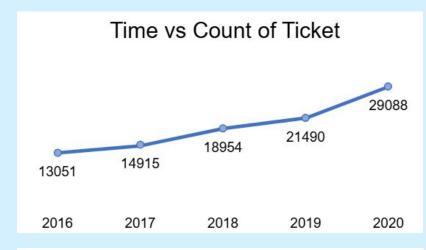
High performers: Resolved > 1949 with satisfaction > 4.

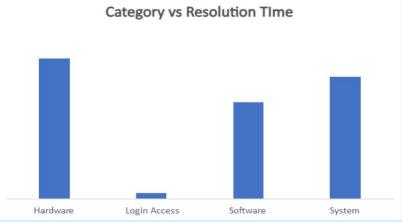
Low performers: Resolved < 1949 with satisfaction < 4.

Aurelio Tanori 4.41 2027 High Performers Jesus Contreras 4.34 2026 High Performers Elena Velez 3.62 2021 Low Performers Melinda 4.40 2007 High Performers Melinda 4.40 2007 High Performers Willyberto Gonzales 4.38 2000 High Performers Galindo Guadalupe 4.47 1991 High Performers Barraza Alberto 4.19 1988 High Performers Guadalupe Torrico 4.36 1987 High Performers Alfonso Barraza 3.04 1984 Low Performers Alforso Barraza 3.04 1984 Low Performers Alforso Barraza 3.04 1984 Low Performers Alforso Barraza 4.42 1974 High Performers Alforso Barraza 4.42 1974 High Performers Alforso Barraza 4.42 1974 High Performers Alberto Casillas	Agent Name	Average of Satisfaction Rate	Count of Fecha	Status
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Luis Torres 4.20 1913 Low Performers Sandra Lujan 3.60 1906 Low Performers Javier D. 4.49 1897 Low Performers Reyna Santacruz 3.91 1897 Low Performers Miller Gaviria 3.99 1892 Low Performers Armando Sierra 4.36 1890 Low Performers Alberto Gastelum 4.40 1889 Low Performers	Alfredo Barreras	3.67	1920	Low Performers
Sandra Lujan 3.60 1906 Low Performers Javier D. 4.49 1897 Low Performers Reyna Santacruz 3.91 1897 Low Performers Miller Gaviria 3.99 1892 Low Performers Armando Sierra 4.36 1890 Low Performers Alberto Gastelum 4.40 1889 Low Performers	Guadalupe Hernandez	4.38	1915	Low Performers
Javier D. 4.49 1897 Low Performers Reyna Santacruz 3.91 1897 Low Performers Miller Gaviria 3.99 1892 Low Performers Armando Sierra 4.36 1890 Low Performers Alberto Gastelum 4.40 1889 Low Performers	Luis Torres	4.20	1913	Low Performers
Reyna Santacruz 3.91 1897 Low Performers Miller Gaviria 3.99 1892 Low Performers Armando Sierra 4.36 1890 Low Performers Alberto Gastelum 4.40 1889 Low Performers		3.60	7,355	
Miller Gaviria 3.99 1892 Low Performers Armando Sierra 4.36 1890 Low Performers Alberto Gastelum 4.40 1889 Low Performers		4.49		
Armando Sierra 4.36 1890 Low Performers Alberto Gastelum 4.40 1889 Low Performers		3.91	5,53	VALUE OF THE PARTY
Alberto Gastelum 4.40 1889 Low Performers			27.77	
	Armando Sierra	4.36	1890	Low Performers
Griselda Galindo 4.28 1856 Low Performers			0.757.7	
	Griselda Galindo	4.28	1856	Low Performers

Investment Decisions

- Ticket volumes doubled from 2016 to 2020.
- Hire agents to handle workload increases.
- Train agents to handle hardware/system tickets with longer resolution times.





Agent Training Needs

Focus on agents with:

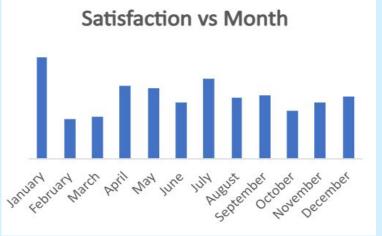
- Resolution time > 4.55 days.
- Satisfaction < 4.

Agent Name V Avera	ge of Resolution Time (Days)	Average of Satisfaction Rate	Status
Alfonso Barraza	4.999495968	3.04233871	Needs Additional Training
A. Trejo	5.32067727	3.592611596	Needs Additional Training
Sandra Lujan	5.204616999	3.601259182	Needs Additional Training
Nurio Zepeda	5.409558068	3.612024666	Needs Additional Training
Elena Velez	5.381989114	3.615042058	Needs Additional Training
Lorena	5.511190234	3.628179044	Needs Additional Training
Guadalupe Villanueva	4.804392237	3.631256384	Needs Additional Training
Lopez Moran.	4.778118609	3.63803681	Needs Additional Training
Jesus Pacheco	4.595028483	3.660797514	Needs Additional Training
Orci Carlos	4.317757009	3.665109034	Performers
Alfredo Barreras	4.286979167	3.667708333	Performers
Velasquez Jose	4.523345305	3.690097486	Performers
Aldo Carrillo	4.554933876	3.783316378	Needs Additional Training
Luis Arguello	3.700362882	3.821150855	100 PER 15
Parra Luna	4.867040245	3.847682119	Needs Additional Training
Revna Santacruz	3.846072746	3.913020559	
Estuardo Ocaño	5.524031008	3.97622739	Needs Additional Training
Flores Sierra	4.754457463		Needs Additional Training
Miller Gaviria	4.731501057	3.991014799	Needs Additional Training
EstuardoTorres	4.901132853	4.085478888	Performers
Silvia Morales	4.886524823	4.123100304	Performers
Eduardo Luna	4.4078125	4.147916667	Performers
Yomaira Agudelo	3.824624935	4.170201759	Performers
Barraza Alberto	5.243963783	4.187625755	
Luis Torres	3.918452692	4.198118139	
Ramon Macias	5.451513597	4.204720369	
Isela Leyva	3.651422764	4.222052846	Performers
Griselda Galindo	5.322198276	4.282327586	
Rosa Olguin	5 319487179	4 320512821	
Mata Lucero	5.44591163	4.340274251	A STATE OF THE STA
Leon Lourdes	3.705252422	4.341662417	Performers
Jesus Contreras	5,554787759	4.344521224	
Armando Sierra	5.343915344	4.355026455	
Darwin E.	4.058097686	4.361953728	
Guadalupe Torrico	3.66935078	4.364368395	
Willyberto Gonzales	4.259	/ 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3	Performers
Guadalupe Hernandez	4.55770235	4.377545692	W7777
Melinda	4.369207773	4.399103139	
Alberto Gastelum	3.705664373	4.401270513	
Aurelio Tanori	4.514553527	4.407992107	N. 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Eva Cardenas	4.720020587	4.411219763	
Alberto Casillas	4.298378926	4.411219703	72.33 30 30 30 30 30 30 30 30 30 30 30 30 3
Marisol Piedrahita	3.834183673	4,436734694	
Barbara Griialva	4.227159261	4.441337993	9778637011717
Enrique Montiel	4.643446852	4.441337993	
Enrique Montiel Segura Garcia	3.716727084	4.4442/2446	
Galindo Guadalupe	3.655951783		Performers
	3.596544715	4,4/16223	
Jesus Grajeda	3.596544715	4.4/35/7236	Performers
Javier D.	4.05640485	4.489720611	Do of a second

Performance Trends

- Monthly Stability: January (low ticket volume, high satisfaction).
- Peak Ticket Months: August, October.
- Performance steady despite workload increases.





Strategic Recommendations

Key Recommendations:

- Hire more agents to manage increased workload.
- Provide targeted training for hardware/system categories.
- Invest in tools to improve resolution times further.

Expected Impact:

- Reduced backlog.
- Improved employee satisfaction.

Dashboard and Visualizations

Key Metrics Displayed:

- Total Tickets
- Average Tickets per Day
- Average Resolution Time
- Average Tickets per Agent
- Average Satisfaction Rating

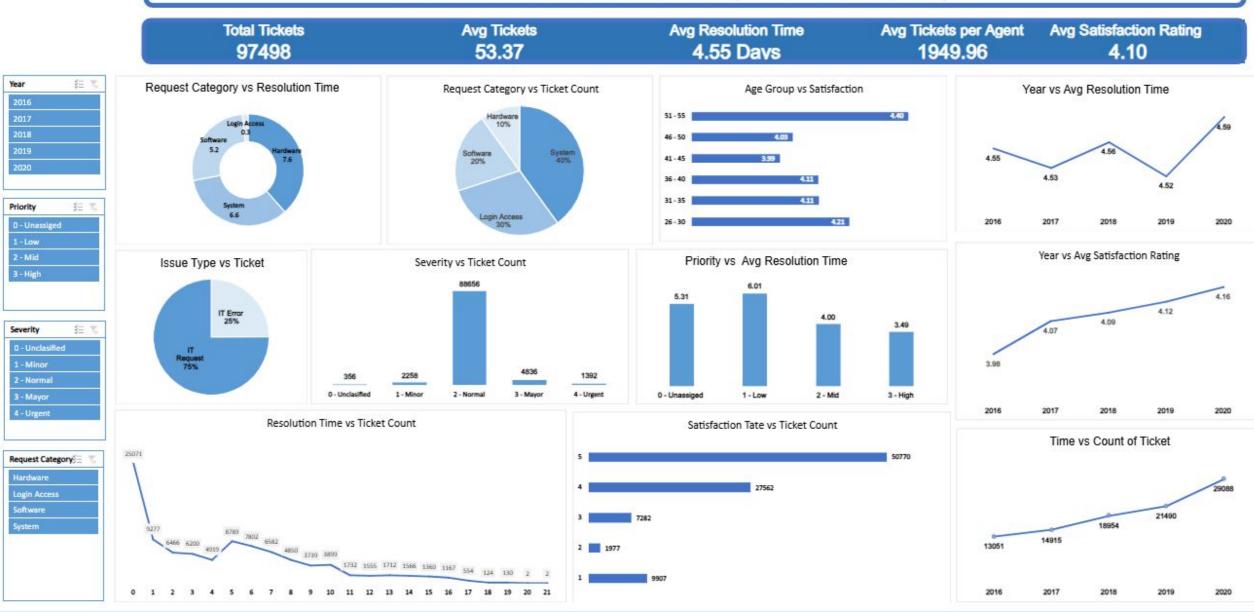
Interactive Filters:

- Year
- Priority
- Severity
- Request Category

Visualizations and Insights:

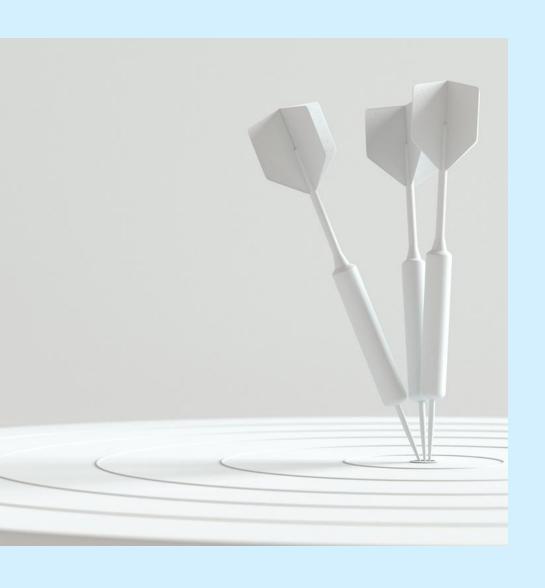
- Category vs. Resolution Time
- Priority vs. Average Resolution Time
- Time vs. Count of Tickets
- Severity vs. Ticket Count
- Issue Type vs. Tickets
- Resolution Time vs. Ticket Count
- Satisfaction Rate vs. Ticket Count
- Average Resolution Time vs. Years
- Age Group vs. Satisfaction

Dashboard for IT Ticket Analysis for FP20 Analytics



Conclusion

- IT support performance improving despite workload growth.
- Focus areas: Hiring, training, and tech investments.
- Data-driven decisions will sustain improvements and optimize efficiency.



Thank you