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Submit & Process Anomalies

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ProM-Ex 🍀

Welcome!

🤖 Upload a CSV file, and I will detect and explain their anomalies.

Processing complete.

Detected Timestamp Anomalies:

	timestamp	concept:name
1,073	2015-01-21 17:57:22+00:00	ER Registration
1,247	2015-02-02 02:03:30+00:00	ER Registration
1,399	2015-01-25 15:08:46+00:00	ER Registration
2,288	2014-12-31 01:55:56+00:00	ER Registration
2,698	2015-01-14 18:14:21+00:00	ER Registration
3,327	2015-01-29 14:34:58+00:00	ER Registration
3,898	2014-01-29 02:42:25+00:00	ER Registration
4,367	2015-02-22 06:16:14+00:00	Return ER
4,383	2015-01-07 20:39:25+00:00	ER Registration
4,432	2015-01-28 08:33:50+00:00	ER Registration

1. Possible reasons for these anomalies:

1. Possible reasons for these anomalies:

- **Data entry errors:** Timestamps may have been entered incorrectly during data collection or transcription.
- **System errors:** Software or hardware issues may have caused timestamps to be recorded incorrectly.
- **Time zone issues:** Timestamps may not have been adjusted for the correct time zone, leading to discrepancies.
- **Manual adjustments:** Timestamps may have been manually adjusted for various reasons, such as data cleaning or analysis purposes.
- **Data manipulation:** Timestamps may have been altered or fabricated for malicious or fraudulent purposes.

2. Impact of these anomalies on the overall process or system:

- **Data integrity:** Anomalies in timestamps can compromise the integrity of the data, making it difficult to trust the accuracy and reliability of the information.
- **Process efficiency:** Incorrect timestamps can disrupt processes that rely on time-sensitive data, leading to delays, errors, and inefficiencies.
- **Decision-making:** Anomalies can affect decision-making based on the data, as incorrect timestamps may provide a distorted view of events or trends.
- **Compliance and regulations:** In certain industries, compliance with regulations may require accurate timestamps for data tracking and reporting purposes.

3. Recommendations for handling or preventing similar anomalies in the future:

- **Data validation:** Implement data validation rules to check for timestamp anomalies during data entry and processing.
- **Time zone standardization:** Ensure that all timestamps are recorded and stored in a consistent time zone to avoid confusion.
- **System maintenance:** Regularly maintain and update software and hardware to minimize the risk of system errors that could affect timestamps.

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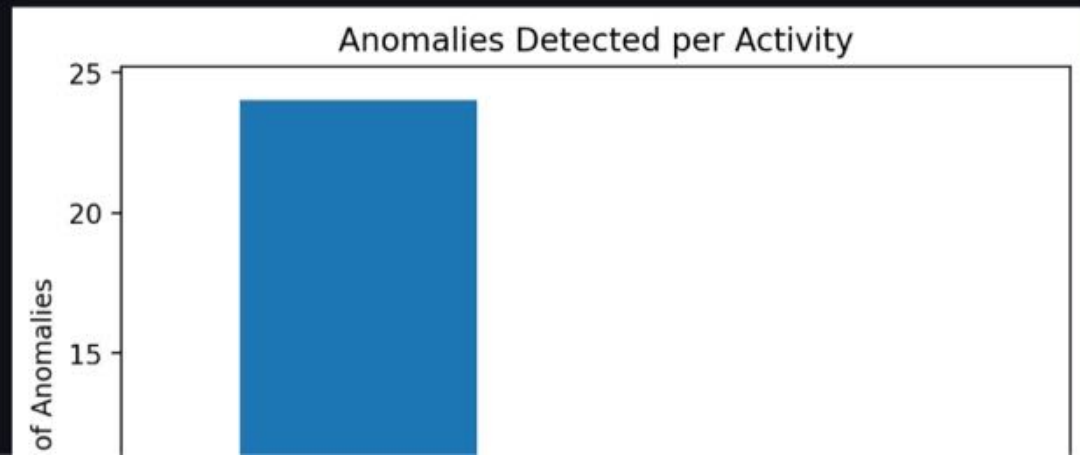
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3. Recommendations for handling or preventing similar anomalies in the future:

- **Data validation:** Implement data validation rules to check for timestamp anomalies during data entry and processing.

- **Time zone standardization:** Ensure that all timestamps are recorded and stored in a consistent time zone to avoid confusion.

- **System maintenance:** Regularly maintain and update software and hardware to minimize the risk of system errors that could affect timestamps.

- **Data auditing:** Conduct regular data audits to identify and correct any timestamp anomalies that may have occurred.

- **User training:** Provide training to data entry personnel on the importance of accurate timestamp recording and the consequences of anomalies.

- **Data encryption:** Implement data encryption measures to protect against malicious data manipulation that could alter timestamps.

- **Data backup and recovery:** Maintain regular data backups to allow for recovery in case of data loss or corruption, including timestamp information.

Anomaly Detection Summary:

Anomalies Detected per Activity

25

20

15

of Anomalies

Anomaly Detection Summary:

Menu:

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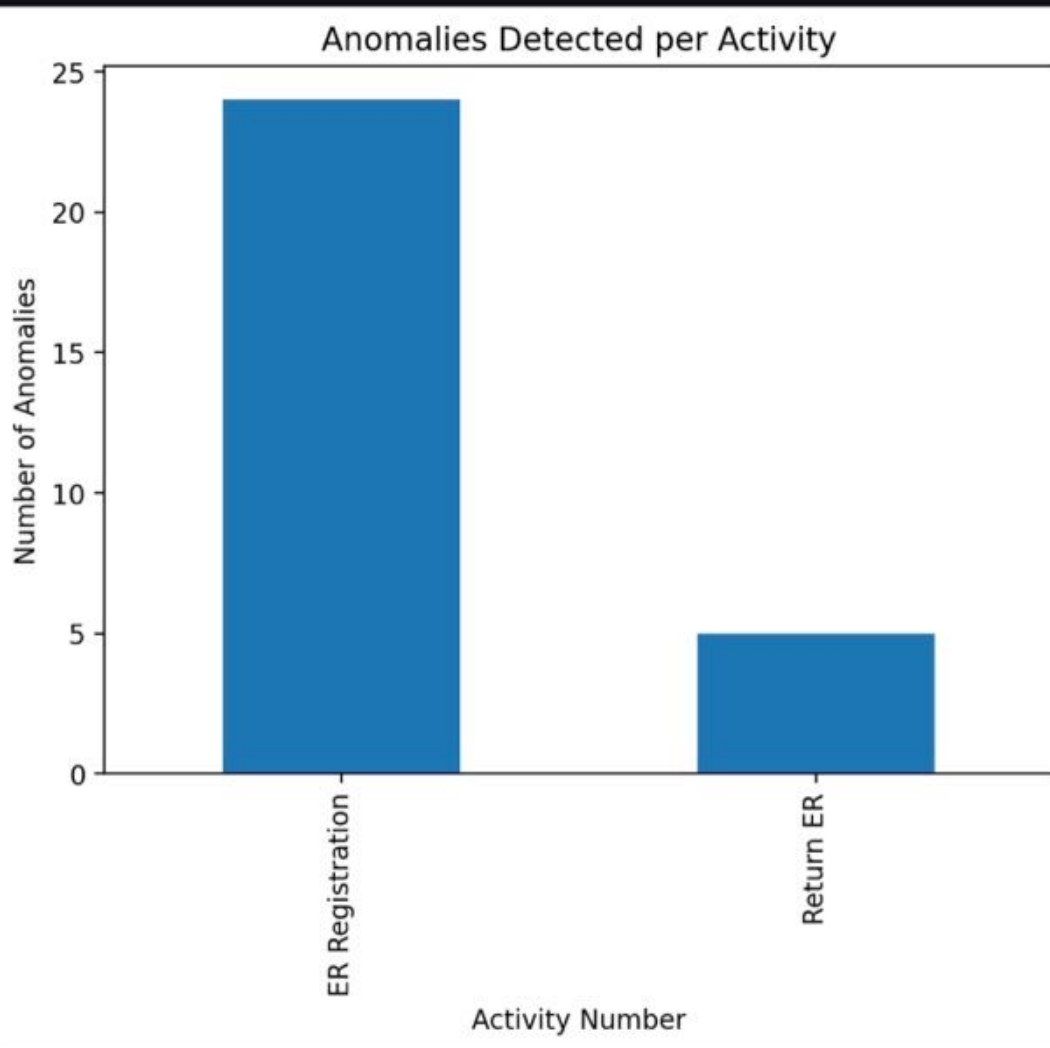Limit 1GB per file • CSV

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Anomalies Detected per Activity

Anomalies Detected per Activity

Number of Anomalies vs Activity Number