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Panel C, Batch C1

## DEC Lab Assignment - 5

### \* Problem statement

ETL using Tableau/statistica/Power BI

### \* Objectives.

- The ability to Visually analyze data and gain valuable insights.
- Aims to simplify the process of data-exploration by providing a user-friendly interface that allows users to interact with data in real time.
- To enable users to create data visualizations, dashboards and reports.

### \* Input

- MySQL database - dump - SQL
- indian crime, CSV

### \* Output

Data analysis reports.

### \* platform: windows

## \* Conclusion

In conclusion, Tableau, Statistica & powerBI are powerful tools that streamline the ETL process and enable organizations to extract, transform, load, and analyze data efficiently with their user-friendly interface, integration capabilities, automation features, and robust data visualization options. These tools empower users to derive valuable insights from large volumes of data. Incorporating Tableau, Statistica, or power BI into an organization's ETL workflow can significantly enhance data analysis and decision-making process.

## \* FAQ'S

1. Differentiate between Tableau and powerBI features.

Ans. Tableau:

1) Ease of use:- known for its intuitive drag-and-drop interface.

:- Suitable for both technical and non-technical users.

2) Data Connectivity:- Offers a variety of data connections and integrations.

3) Visualization Capabilities:- Strong emphasis on advanced and interactive visualizations.

Extensive customization options for visual elements.



- 4) Deployment :- Supports on-premises and cloud deployment.
- 5) Learning Curve :- Might have a sleeper learning curve for certain advanced features.

### Power BI:

- 1) Integration with Microsoft stack:-  
Seamlessly integrates with other Microsoft products.
- 2) Data Transformation: Robust ETL (Extract, Transform Load) capabilities.
- 3) Collaboration: Strong Collaboration features with integration into Microsoft Teams.
- 4) Pricing: - often considered more cost-effective especially for organizations already using Microsoft products.
- 5) Natural Query Language:- Features like Q&A allow users to ask questions in natural language.

6) Learning Curve:- Generally considered users-friendly with a shorter learning Curve.

### Common Features:-

1) Data Connectivity:- Both support a wide range of data sources.

2) Dash boards:- offer interactive and customizable dashboards.

3) Mobile Support:- Provide mobile access for analytics on the go

4) Security:- Include security features for data protection

5) ~~up~~ community and support:- Have active user communities and support resources.

6) update and Improvements:- Regularly updated with new features and improvements.

Q.2. What is the purpose of Tableau dashboard

Ans. The purpose of a Tableau dashboard is to visually represent and analyze complex data sets, enabling users to gain actionable insights at a glance. It facilitates interactive exploration, making data-driven decisions accessible to both technical and non technical users.