Summary Notes

1. Overview of the Dataset

- This Excel file is sourced from the NASA Exoplanet Archive.
- It contains 819 records (rows) and 92 variables (columns).
- The data focuses on confirmed exoplanets discovered by the TESS mission.
- The file was generated on 30 December 2025.

2. Purpose of the Data

- The dataset is designed to provide scientific and observational details of exoplanets.
- It helps in analyzing:
    - Planetary characteristics
    - Host star properties
    - Discovery methods and timelines

3. Structure of the File

- Initial rows contain metadata and constraints, not actual data.
- Actual data starts after the comment lines.
- Each row represents one confirmed exoplanet.
- Each column represents a specific parameter related to the planet or its star.

4. Key Information Covered

The dataset includes (but is not limited to):

- Planet Details
    - Planet name

    - Planet radius and mass
    - Orbital period
    - Distance from host star
-
- Host Star Details
    - Star name
    - Star mass and radius
    - Star temperature
-
- Discovery Information
    - Discovery method (Transit – TESS)
    - Discovery year
    - Discovery facility
-
- Validation & Quality Flags
    - Confirmation status
    - Default selection flags
    - Measurement uncertainties

5. Data Quality Notes

- Some columns may contain missing (NaN) values, which is expected in astronomical datasets.
- Numerical values are often accompanied by error margins, improving scientific reliability.
- The dataset follows standardized NASA formatting, ensuring high credibility.

6. How This Data Can Be Used

- Scientific research and analysis

- Trend analysis of exoplanet discoveries
- Educational and academic projects
- Data visualization and statistical