Final Project in IT108

Title: Crime Data Analysis & Visualization

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📄 Source Data (CSV)

🧽 Clean Data

📊 Analyze Data

📈 Data Visualization

1. Source Data

	date	crime_typ	location	gender	age	count
1	date	crime_typ	location	gender	age	count
2	01/01/2024	Theft	Manila	Male	25	5
3	01/01/2024	Assault	Quezon Ci	Female	30	3
4	02/01/2024	Theft	Manila	Male		2
5	03/01/2024	Murder	Makati	Female	40	1
6	03/01/2024	Theft	Manila		25	4
7	01/02/2024	Theft	Manila	Male	25	8
8	01/02/2024	Assault	Quezon Ci	Female	30	4
9	02/02/2024	Theft	Manila	Male		4
10	03/02/2024	Murder	Makati	Female	40	2
11	03/02/2024	Theft	Manila		25	6
12	02/03/2024	Theft	Manila	Male		2
13	03/03/2024	Murder	Makati	Female	40	1
14	03/03/2024	Theft	Manila		25	4
15	01/03/2024	Theft	Manila	Male	25	8
16	01/03/2024	Assault	Quezon Ci	Female	30	4
17						

2. Clean Data

Data cleaned successfully!

View Cleaned Data

JSON CLEAN DATA:

[

  {

    "date": "01\/01\/2024",

    "crime_type": "Theft",

    "location": "Manila",

    "gender": "Male",

    "age": "25",

    "count": "5"

  },

  {

    "date": "01\/01\/2024",

    "crime_type": "Assault",

    "location": "Quezon City",

    "gender": "Female",

    "age": "30",

    "count": "3"

  },

  {

```
    "date": "02\/01\/2024",

    "crime_type": "Theft",

    "location": "Manila",

    "gender": "Male",

    "age": "Unknown",

    "count": "2"

},

{

    "date": "03\/01\/2024",

    "crime_type": "Murder",

    "location": "Makati",

    "gender": "Female",

    "age": "40",

    "count": "1"

},

{

    "date": "03\/01\/2024",

    "crime_type": "Theft",

    "location": "Manila",

    "gender": "Unknown",

    "age": "25",

    "count": "4"

},

{

    "date": "01\/02\/2024",

    "crime_type": "Theft",

    "location": "Manila",

    "gender": "Male",

    "age": "25",
```

    "count": "8"

},

{

    "date": "01\/02\/2024",

    "crime_type": "Assault",

    "location": "Quezon City",

    "gender": "Female",

    "age": "30",

    "count": "4"

},

{

    "date": "02\/02\/2024",

    "crime_type": "Theft",

    "location": "Manila",

    "gender": "Male",

    "age": "Unknown",

    "count": "4"

},

{

    "date": "03\/02\/2024",

    "crime_type": "Murder",

    "location": "Makati",

    "gender": "Female",

    "age": "40",

    "count": "2"

},

{

    "date": "03\/02\/2024",

    "crime_type": "Theft",

    "location": "Manila",

    "gender": "Unknown",

    "age": "25",

    "count": "6"

  },

  {

    "date": "02\/03\/2024",

    "crime_type": "Theft",

    "location": "Manila",

    "gender": "Male",

    "age": "Unknown",

    "count": "2"

  },

  {

    "date": "03\/03\/2024",

    "crime_type": "Murder",

    "location": "Makati",

    "gender": "Female",

    "age": "40",

    "count": "1"

  },

  {

    "date": "03\/03\/2024",

    "crime_type": "Theft",

    "location": "Manila",

    "gender": "Unknown",

    "age": "25",

    "count": "4"

  },

```
    {
        "date": "01\/03\/2024",
        "crime_type": "Theft",
        "location": "Manila",
        "gender": "Male",
        "age": "25",
        "count": "8"
    },
    {
        "date": "01\/03\/2024",
        "crime_type": "Assault",
        "location": "Quezon City",
        "gender": "Female",
        "age": "30",
        "count": "4"
    }
]
```

3. Analyzed Data

Analysis completed!

View Analyze Data

JSON FILE ANALYZED DATAl

```json
{
    "crime_per_type": {
        "Theft": 43,
        "Assault": 11,
        "Murder": 4
    },
    "crime_per_location": {
        "Manila": 43,
        "Quezon City": 11,
        "Makati": 4
    },
    "crime_per_gender": {
        "Male": 29,
        "Female": 15,
        "Unknown": 14
    },
    "monthly_trend": {
        "2024-01": 32,
        "2024-02": 8,
        "2024-03": 18
    }
}
```

4. Data Visualization

Crime Data Analysis Dashboard