**🔥 Power BI Dashboard Plan**

**1. Data Preparation**

* Import your Excel file into Power BI (Home > Get Data > Excel).
* Load the data into a table — no transformations are needed unless you want to clean column names.
* Make sure the following fields exist:  
  Department, Sub-Department, Supervisor, Crew Name, Project Description, Activity, Location.

**2. Overview Dashboard**

**Visuals:**

* **Card Visuals** (3 cards):
  + Total **Crew Members** → Count of Crew Name
  + Total **Projects** → Distinct Count of Project Description
  + Total **Departments** → Distinct Count of Department
* **Donut Chart**:
  + **Legend** = Department
  + **Values** = Count of Crew Name  
    *(Shows crew distribution by Civil, Mechanical, E&I)*

**3. Department Analysis**

**Visuals:**

* **Stacked Bar Chart**:
  + **Axis** = Supervisor
  + **Legend** = Department
  + **Values** = Count of Crew Name
* **Table View**:
  + Columns:
    - Crew Name
    - Supervisor
    - Project Description
    - Activity
    - Location

**4. Project Allocation**

**Visuals:**

* **Treemap**:
  + **Group** = Project Description
  + **Values** = Count of Crew Name
* **Matrix Visual**:
  + **Rows** = Project Description
  + **Columns** = Department
  + **Values** = Count of Crew Name

**5. Filters/Slicers**

Add **Slicers** on the side panel:

* Department (Dropdown)
* Project (Dropdown)
* Location (Dropdown)
* Supervisor (Dropdown)

**Slicer Setup Tip**:  
After inserting slicers, set them to **Dropdown** style from the slicer format settings for a cleaner look.

**🎯 Summary Layout**

| **Section** | **Visual Type** | **Key Fields** |
| --- | --- | --- |
| Overview | Cards + Donut | Crew Name, Project Description, Department |
| Department Analysis | Stacked Bar + Table | Supervisor, Crew Name, Project Description |
| Project Allocation | Treemap + Matrix | Project Description, Department |

**🛠 Bonus: Quick Steps to Make Cards and Charts**

* **Insert > Card** → Drag required field (then aggregate/count as needed).
* **Insert > Donut chart** → Department (Legend), Crew Name (Values).
* **Insert > Bar chart** → Supervisor and Crew Name.
* **Insert > Treemap** → Project Description and Crew Name.
* **Insert > Matrix** → Drag and drop as required.
* **Insert > Slicer** → Drag Department/Project/Location/Supervisor one by one.

Would you also like me to **design a sample Power BI layout** (with rough positioning) so you can directly build it faster? 🚀  
I can send you a ready layout suggestion if you want! 🎨✨  
Should I?

4o

**You said:**

show me all the measures calculations

**ChatGPT said:**

Of course! 🔥  
Here’s **every measure** you’ll need to create for this Power BI dashboard, nice and clean.

**📏 Required Measures**

**1. Total Crew Members**

DAX

CopyEdit

Total Crew Members = COUNT('TableName'[Crew Name])

(Replace 'TableName' with your actual table name if needed.)

**2. Projects Count**

DAX

CopyEdit

Projects Count = DISTINCTCOUNT('TableName'[Project Description])

**3. Departments Count**

DAX

CopyEdit

Departments Count = DISTINCTCOUNT('TableName'[Department])

**4. Crew Count (for charts like Donut, Bar, Treemap, Matrix)**

This measure can be reused everywhere:

DAX

CopyEdit

Crew Count = COUNT('TableName'[Crew Name])

**🔥 Bonus: Optional measures if you want cleaner charts**

If you want charts that **don't show blank projects or departments**, you can create **filtered versions**:

**5. Crew Count (No Blanks)**

DAX

CopyEdit

Crew Count (No Blanks) =

CALCULATE(

COUNT('TableName'[Crew Name]),

NOT(ISBLANK('TableName'[Department])),

NOT(ISBLANK('TableName'[Project Description]))

)

*(Use this only if your table has blanks, otherwise simple Crew Count is fine.)*

**🎯 Summary of Measures You Need**

| **Measure Name** | **Formula** |
| --- | --- |
| Total Crew Members | COUNT('TableName'[Crew Name]) |
| Projects Count | DISTINCTCOUNT('TableName'[Project Description]) |
| Departments Count | DISTINCTCOUNT('TableName'[Department]) |
| Crew Count | COUNT('TableName'[Crew Name]) |
| (Optional) Crew Count (No Blanks) | CALCULATE(COUNT('TableName'[Crew Name]), NOT(ISBLANK(...))) |

**📊 How to use these measures**

* Use the **card visuals** for Total Crew Members, Projects Count, Departments Count.
* Use Crew Count in:
  + Donut chart (Department-wise Crew Distribution)
  + Stacked bar (Crew by Supervisor and Department)
  + Treemap (Crew by Project)
  + Matrix (Crew count by Project vs Department)