## **README — AI Sentiment Heat Map (3NF Relational Structure)**

**Purpose:**

This dataset models the *AI Sentiment Heat Map* survey in full **Third Normal Form**. It separates survey logic, sentiment categories, levels, and interpretation tables for clean joins and future analytical flexibility.

### **Core Concept**

The **survey\_result** table is the **connector** between the model, sentiment categories, and thematic levels.  
It currently holds **empty mean\_score values**, which will later be filled by the Mean Model calculations.

### **Tables Overview**

| **Table** | **Purpose** | **Key Fields** | **Notes** |
| --- | --- | --- | --- |
| **survey\_model** | Defines the model used to compute results (e.g., “Mean Model”) | model\_id | Metadata only; no data processing yet |
| **survey\_level** | Represents the 5 heat map levels (rows) | level\_id, level\_name | Describes organizational or psychological layers |
| **sentiment\_category** | Represents the 5 survey sentiment items (columns) | category\_id, category\_name | Used for cross-analysis with levels |
| **survey\_result** | **Connector table** linking model, level, and category | result\_id, model\_id, level\_id, category\_id, mean\_score | Contains 25 records (5×5 grid); mean\_score empty |
| **score\_range** | Defines qualitative meaning of score bands | range\_id, min\_score, max\_score, label | Used for color coding / dashboards |
| **stddev\_interpretation** | Maps standard deviation ranges to alignment labels | stddev\_id, range\_min, range\_max | Explains group cohesion levels |

### **Relationships**

* survey\_model → survey\_result (1–many)
* survey\_level → survey\_result (1–many)
* sentiment\_category → survey\_result (1–many)
* score\_range and stddev\_interpretation are standalone reference tables.

### **Implementation Notes**

* Use INT for IDs, TEXT for names/descriptions, FLOAT for numeric ranges.
* Add foreign keys from survey\_result to its parent tables.
* mean\_score should remain NULL until the analytical model populates results.

**Files Included:**survey\_model.csv, survey\_level.csv, sentiment\_category.csv, survey\_result.csv, score\_range.csv, stddev\_interpretation.csv