# **README — AI Maturity Assessment (3NF Relational Structure)**

## **Purpose**

This dataset models the AI Maturity Assessment survey in full Third Normal Form (3NF).  
 It separates organizational dimensions, constructs, and survey questions into discrete relational tables for clean joins, scalable data storage, and analytical flexibility.

## **Core Concept**

The questions table serves as the connector between the constructs (mid-level thematic areas) and their parent dimensions (top-level categories).

Each question links upward through foreign keys, allowing structured analysis across dimensions, constructs, and question-level insights.

## **Tables Overview**

| **Table** | **Purpose** | **Key Fields** | **Notes** |
| --- | --- | --- | --- |
| **dimensions** | Defines the top-level maturity areas (e.g., *Strategy and Vision*, *Data*) | dimension\_id, dimension\_name | Metadata table; no direct question content |
| **constructs** | Represents the subcategories under each dimension | construct\_id, dimension\_id, construct\_name, construct\_module | Each construct belongs to one dimension |
| **questions** | Contains all survey questions linked to constructs | question\_id, construct\_id, question\_text | Each question belongs to one construct |

## **Relationships**

* **dimensions → constructs** (1–many)
* **constructs → questions** (1–many)

Each dimension can have multiple constructs, and each construct can have multiple questions.

This clean hierarchical relationship allows easy roll-ups from question-level data to construct- or dimension-level summaries.

## **Implementation Notes**

* Use INT for all numeric IDs, VARCHAR for names, and TEXT for longer question text fields.
* Add foreign key constraints:  
  + constructs.dimension\_id → dimensions.dimension\_id
  + questions.construct\_id → constructs.construct\_id
* UTF-8 encoding is recommended for all text fields.
* The structure supports expansion for future models, e.g. scoring, maturity level tracking, or respondent metadata.

## **Files Included**

* dimensions.csv — Defines the 8 high-level AI maturity dimensions
* constructs.csv — Lists all constructs (subdimensions) linked to dimensions
* questions.csv — Contains all 32 survey questions linked to constructs