

## Entity-Relationship Diagram for Yield Dataset

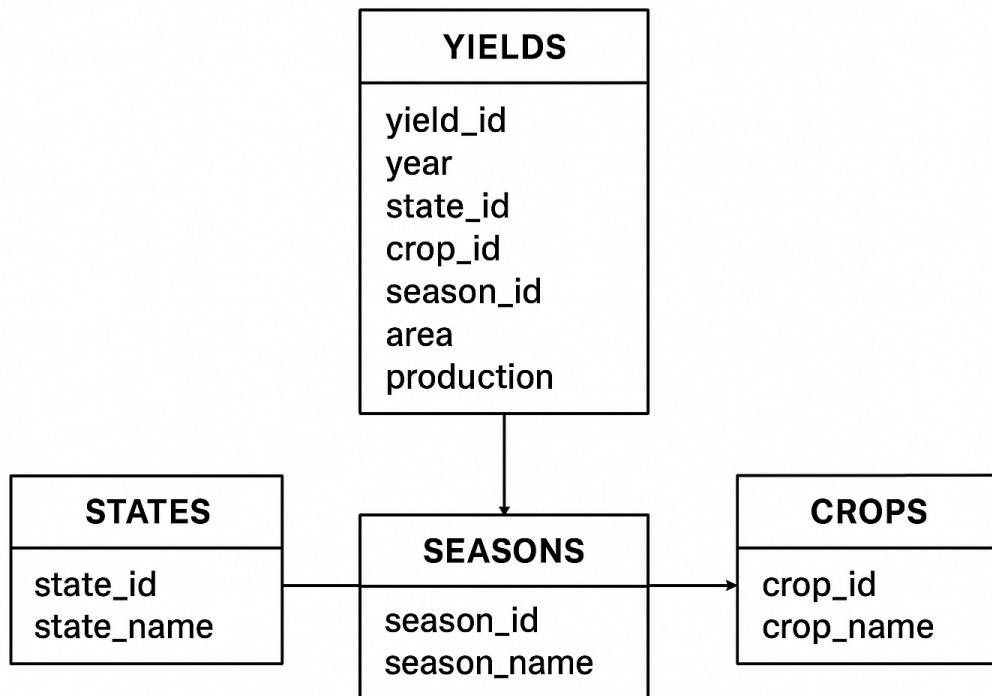


Figure 1: ER Diagram for the Yield Dataset

The Entity-Relationship Diagram (ERD) above represents the database structure for the yield.csv dataset.

The diagram includes four main entities: YIELDS, STATES, CROPS, and SEASONS. The YIELDS table serves as the central fact table, containing all production-related data with attributes such as yield\_id (primary key), year, area, and production. It also includes foreign keys linking to the STATES, CROPS, and SEASONS tables.

The STATES table stores information about regions or states, the CROPS table stores various crop types, and

the SEASONS table holds the different growing seasons. Relationships are one-to-many between STATES and YIELDS, CROPS and YIELDS, and SEASONS and YIELDS, as one state, crop, or season can have multiple yield records.