**Schema Overview**

This database, **created and designed within Power BI using its Power Query capabilities**, is structured to manage job postings, the companies offering them, and the skills required for each job. The schema has been normalized to support data integrity, scalability, and efficient querying. It avoids redundancy and supports many-to-many relationships between jobs and skills using a dedicated junction table.

**📘 Table Descriptions**

**1. Company\_dim**

* **Purpose**: Stores information about each company that posts jobs.
* **Primary Key**: Company\_id
* **Fields**:
  + Company\_id: Unique identifier for each company
  + CompanyName, Location, Industry, etc.

**2. Job\_post\_fact**

* **Purpose**: Stores job posting details.
* **Primary Key**: Job\_id
* **Foreign Key**: Company\_id → references the company posting the job
* **Fields**:
  + Job\_id: Unique identifier for each job
  + Company\_id: Foreign key to the Company table
  + JobTitle,, PostedDate, etc.

**Note**: The Skill\_id column has been intentionally removed from this table to avoid limiting jobs to a single skill and to prevent schema-level redundancy.

**3. Skill\_dim**

* **Purpose**: Contains the list of all unique skills that can be associated with job postings.
* **Primary Key**: Skill\_id
* **Fields**:
  + Skill\_id: Unique identifier for each skill
  + skills: Name of the skill (e.g., Python, SQL)
  + type

**4. Skill\_job\_dim**

* **Purpose**: Junction table that models the many-to-many relationship between job posts and skills.
* **Composite Primary Key**: (Job\_id, Skill\_id)
* **Foreign Keys**:
  + Job\_id → references Job\_post\_fact
  + Skill\_id → references Skill
* **Fields**:
  + Job\_id: Foreign key to a job post
  + Skill\_id: Foreign key to a skill

**5. Job\_schdule\_type**

* **Purpose**: Stores scheduling information related to each job post, such as whether the job is full-time, part-time, remote, on-site, or hybrid.
* **Composite Primary** **Key**: JobID
* **Foreign** **Key**: JobID → references Job\_post\_fact (Job\_id)
* **Fields**:
* JobID: Unique identifier for the job (also serves as the primary key)
* ScheduleType: Describes the type of schedule (e.g., 'Full-time', 'Part-time', etc.)