

Yelp Dataset Data Model

The Yelp dataset consists of several interrelated tables. Below is a summary of the key entities and their relationships:

Entities:

1. Business Table:

- a. Attributes: business_id, name, address, city, state, postal_code, latitude, longitude, stars, review_count, is_open, categories.
- b. Purpose: Stores details about businesses, including location, ratings, and categories.

2. Review Table:

- a. Attributes: review_id, user_id, business_id, stars, text, date.
- b. Purpose: Captures reviews left by users for businesses, including rating and text content.

3. User Table:

- a. Attributes: user_id, name, review_count, yelping_since, useful, funny, cool, elite, friends, fans, average_stars.
- b. Purpose: Holds user profiles and engagement metrics.

4. Check-in Table:

- a. Attributes: business_id, date.
- b. Purpose: Logs when users checked in to a business.

5. Photo Table:

- a. Attributes: photo_id, business_id, caption, label.
- b. Purpose: Stores photos associated with businesses.

6. Tip Table:

- a. Attributes: user_id, business_id, text, date.
- b. Purpose: Stores short tips provided by users about businesses.

Relationships:

- **One-to-Many:**

- A business can have many reviews, photos, check-ins, and tips.
- A user can write many reviews and tips.

- **Foreign Keys:**

- business_id links business with review, check-in, photo, and tip.
- user_id links user with review and tip.

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