QAP 2 – Databases

Part 2 – SweepSpot

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**Scenario:**

In the bustling world of household and commercial upkeep, SweepSpot emerges as a cutting-edge mobile application bridging the gap between users and local cleaners. Offering an array of services ranging from household tidying to specialized cleaning tasks, SweepSpot facilitates seamless scheduling based on user preferences and availability. Cleaners, in turn, can effortlessly accept job requests aligning with their expertise and timetable. At its core, SweepSpot is committed to simplifying the search for dependable and trustworthy cleaners, all while championing convenience and flexibility for both users and cleaners alike.

**Description of Tables and Attributes:**

1. **Cleaning\_Type:**
   * Attributes: **id** (PK), **cleaning\_name**.
   * Description: Stores types of cleaning services.
2. **Location:**
   * Attributes: **location\_id** (PK), **street\_address**, **province**, **postal\_code**, **country**.
   * Description: Represents physical locations.
3. **Users:**
   * Attributes: **user\_id** (PK), **user\_first\_name**, **user\_last\_name**, **user\_email**, **user\_password**, **user\_type\_id**, **phone\_no**.
   * Description: Stores user information.
4. **User\_Location:**
   * Attributes: **user\_id** (FK), **location\_id** (FK).
   * Description: Associates users with their respective locations.
5. **Conversation:**
   * Attributes: **conversation\_id** (PK), **creation\_date**, **update\_date**, **last\_message\_id** (FK), **first\_user\_id** (FK), **second\_user\_id** (FK).
   * Description: Represents conversations between users.
6. **Cleaner:**
   * Attributes: **cleaner\_id** (PK), **cleaner\_first\_name**, **cleaner\_last\_name**, **cleaner\_email**, **cleaner\_password**, **phone\_no**.
   * Description: Stores information about cleaners.
7. **Cleaner\_User\_Conversation:**
   * Attributes: **user\_conversation\_id** (PK), **user\_id** (FK), **cleaner\_id** (FK), **conversation\_id** (FK).
   * Description: Associates users and cleaners with conversations.
8. **Message:**
   * Attributes: **message\_id** (PK), **message\_data\_id** (FK), **creation\_date**, **status**, **read\_time**, **sender** (FK), **receiver** (FK), **conversation\_id** (FK).
   * Description: Represents messages exchanged between users.
9. **Rating:**
   * Attributes: **rating\_id** (PK), **photo**, **comment**, **rating\_value**.
   * Description: Stores ratings and comments provided by users.
10. **User\_Booking\_Status:**
    * Attributes: **user\_booking\_status\_id** (PK), **status\_name**, **is\_booking\_confirmed**, **is\_booking\_cancelled**, **is\_cleaning\_complete**.
    * Description: Tracks booking status for users.
11. **Message\_Data:**
    * Attributes: **message\_data\_id** (PK), **text**, **image**, **voice**, **video**, **message\_id** (FK).
    * Description: Stores message content data.
12. **Booking:**
    * Attributes: **booking\_id** (PK), **user\_id** (FK), **cleaner\_id** (FK), **booking\_date**, **booking\_time**, **cleaning\_time**, **cleaning\_date**, **cleaning\_type\_id** (FK), **rating\_id** (FK), **user\_booking\_status\_id** (FK).
    * Description: Represents bookings made by users for cleaning services.
13. **Cleaner\_Location:**
    * Attributes: **cleaner\_id** (FK), **location\_id** (FK).
    * Description: Associates cleaners with their working locations.

