QAP 2 – Databases

Exercise 3 – Publication Usage

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1. **Publication Table:**
   * **Table Name:** **Publication**
   * **Attributes:**
     + **pub\_id**: An integer value serving as the primary key of the table, uniquely identifying each publication. It is auto-generated using the **SERIAL** data type.
     + **pub\_title**: A string representing the title of the publication.
     + **last\_rev**: A date representing the date of the last revision of the publication.
2. **MonthyUsage Table:**
   * **Table Name:** **MonthyUsage**
   * **Attributes:**
     + **monthly\_usage\_id**: An integer value serving as the primary key of the table, uniquely identifying each monthly usage entry. It is auto-generated using the **SERIAL** data type.
     + **month**: A date representing the month for which the usage is recorded.
     + **pub\_id**: An integer value representing the publication associated with the monthly usage. It is a foreign key referencing the **pub\_id** column in the **Publication** table.
   * **Association:** One-to-Many relationship between **Publication** and **MonthyUsage**. Each publication can have multiple monthly usage entries.
3. **DailyUsage Table:**
   * **Table Name:** **DailyUsage**
   * **Attributes:**
     + **daily\_usage\_id**: An integer value serving as the primary key of the table, uniquely identifying each daily usage entry. It is auto-generated using the **SERIAL** data type.
     + **date**: A date representing the specific date for which the usage is recorded.
     + **usage**: An integer value representing the usage on the given date.
     + **monthly\_usage\_id**: An integer value representing the monthly usage associated with the daily usage. It is a foreign key referencing the **monthly\_usage\_id** column in the **MonthyUsage** table.
   * **Association:** One-to-Many relationship between **MonthyUsage** and **DailyUsage**. Each monthly usage entry can have multiple daily usage entries.

