**Day 1: Tuesday, July 22 – Introduction to ORM & Setup**

* Studied the basics of **Object-Relational Mapping (ORM)** and how it bridges object-oriented programming with relational databases.
* Watched tutorial videos to better understand ORM concepts in Python.
* Installed and configured **PostgreSQL** locally.
* Set up the initial project environment and tools including psycopg2 for PostgreSQL interaction.

**Day 2: Wednesday, July 23 – Implementing ORM Logic**

* Started coding the core of the ORM framework using Python:
  + Defined the Model base class and custom field types (IntegerField, StringField).
  + Used Python metaclasses to map class attributes to database columns.
* Developed the logic for dynamic table creation and field validation.

**Day 3: Thursday, July 24 – CRUD Operations & Debugging**

* Implemented full **CRUD operations**: create, get, update, and delete.
* Faced challenges with auto-incrementing primary keys (SERIAL) using psycopg2.
* Debugged several issues related to primary key insertion and PostgreSQL constraints.
* Gained better understanding of the interaction between Python and SQL through code.

**Day 4: Friday, July 25 – Day Off**

**Day 5: Saturday, July 26 – Final Touches & GitHub Deployment**

* Finalized the ORM project with clean and working code.
* Wrote a demo script to test all functionality end-to-end.
* Pushed the project to **GitHub**, including:
  + Code documentation
  + Usage examples
  + Setup instructions