**1. Library Management System 📚**

**Skills Used:** Database design, Stored Procedures, Triggers, Joins

* **Tables:** Books, Authors, Members, Borrowed Books, Fines
* **Features:**
  + Users can borrow and return books.
  + Fine calculation if the due date exceeds.
  + Track book availability.
* **Advanced:** Add views, indexing for faster searches.

**2. E-Commerce Database System 🛒**

**Skills Used:** SQL Queries, Normalization, Transactions

* **Tables:** Users, Orders, Products, Payments, Shipments
* **Features:**
  + Users can place orders.
  + Payment processing and order status tracking.
  + Generate reports for monthly sales, top-selling products.
* **Advanced:** Implement indexing and query optimization for performance.

**3. Employee Attendance & Payroll System 💼**

**Skills Used:** SQL Functions, Views, CTEs, PL/SQL

* **Tables:** Employees, Attendance, Payroll, Leave Records
* **Features:**
  + Track attendance and working hours.
  + Auto-calculate salary based on working days.
  + Leave management and deductions.
* **Advanced:** Implement triggers to auto-update leave balances.

**4. Hospital Management System 🏥**

**Skills Used:** Database Design, Stored Procedures, Triggers

* **Tables:** Patients, Doctors, Appointments, Prescriptions, Billing
* **Features:**
  + Track doctor-patient appointments.
  + Store medical history and prescriptions.
  + Generate patient bills dynamically.
* **Advanced:** Create reports for patient visits, revenue analytics.

**5. Online Movie Ticket Booking System 🎬**

**Skills Used:** SQL Joins, Triggers, Views

* **Tables:** Users, Movies, Theatres, Bookings, Payments
* **Features:**
  + Show available movie slots.
  + Allow booking and cancellation.
  + Generate reports for revenue tracking.
* **Advanced:** Add stored procedures for auto-updating seat availability.

**6. Airline Reservation System ✈**

**Skills Used:** SQL Queries, Transactions, Normalization

* **Tables:** Flights, Passengers, Tickets, Payments
* **Features:**
  + Users can book and cancel tickets.
  + Dynamic pricing based on demand.
  + Generate reports for monthly revenue, seat occupancy.
* **Advanced:** Implement partitioning for large datasets.

**7. Banking System Database 🏦**

**Skills Used:** ACID Transactions, Stored Procedures, SQL Functions

* **Tables:** Customers, Accounts, Transactions, Loans
* **Features:**
  + Support for deposits, withdrawals, fund transfers.
  + Loan management with interest calculations.
  + Fraud detection triggers for suspicious transactions.
* **Advanced:** Implement audit logging using triggers.

**8. Customer Relationship Management (CRM) System 📊**

**Skills Used:** SQL Queries, Data Warehousing, Reporting

* **Tables:** Customers, Sales, Support Tickets, Feedback
* **Features:**
  + Track customer interactions and purchases.
  + Analyze customer feedback and sales trends.
  + Generate reports for sales performance.
* **Advanced:** Implement data warehouse concepts for analytical reporting.

**9. Hotel Booking System 🏨**

**Skills Used:** SQL Triggers, Views, Functions

* **Tables:** Hotels, Rooms, Guests, Bookings, Payments
* **Features:**
  + Check room availability and pricing.
  + Book and cancel reservations.
  + Generate revenue reports for different hotels.
* **Advanced:** Optimize queries for handling large datasets.

**10. Social Media Analytics Dashboard 📱**

**Skills Used:** SQL Aggregations, Window Functions, Data Warehousing

* **Tables:** Users, Posts, Likes, Comments, Shares
* **Features:**
  + Track user engagement metrics.
  + Generate reports on trending posts, top influencers.
  + Analyze user activity over time.
* **Advanced:** Use BigQuery or Snowflake for large-scale analytics.