

DATABASE DESIGN

1. **Table Creation:** How did you implement the creation of a new table in your project? Can you explain the SQL command used and provide a code example?
2. **Columns and Data Types:** When creating a new table, what columns and data types did you specify? Could you share an example of a `CREATE TABLE` command?
3. **Primary Key Definition:** How did you define the primary key for your tables? Can you provide an example of how to set a primary key in your SQL command?
4. **Establishing Foreign Key Relationships:** How did you establish foreign key relationships between tables? Can you give an example of a foreign key constraint in your SQL command?
5. **Initial Data Insertion:** How did you implement the insertion of initial data in your project? Can you provide an example of an SQL command for this?
6. **Tables with Inserted Data:** Which tables did you insert data into, and could you provide examples of the inserted data?
7. **Entity-Relationship Diagram (ERD):** Can you describe the data model (entity-relationship diagram, ERD) you created for your project?
8. **Database Design Overview:** Can you explain your database design? Describe the tables you created and their relationships to one another.
9. **Normalization Levels:** Can you discuss your database in terms of normalization? Which normal forms (1NF, 2NF, 3NF, etc.) did you apply, and why?
10. **Data Types and Integrity:** Can you explain the data types used in your database and the reasons for your choices? What methods did you employ to ensure data integrity?
11. **Index Types:** What types of indexes (primary key, unique key, foreign key, etc.) did you use in your database, and how do these indexes impact performance?
12. **Stored Procedures, Triggers, and Functions:** Did you utilize stored procedures, triggers, or functions in your database? If so, how and why did you use these structures?

APPLICATION DEVELOPMENT

1. **Data Grouping Implementation:** How did you implement data grouping in your project? Could you describe the Home Page and provide an example of a LINQ query related to it?
2. **Database Connectivity:** How do you establish database connectivity? What challenges did you face while creating the EDMX model?
3. **Filtering and Sorting:** What filtering and sorting criteria did you apply when fetching data from the database? Can you explain the List Page and provide an example of a LINQ query used there?
4. **Data Insertion:** How did you implement data insertion in your project? Could you explain the Create Page and provide an example of a LINQ query for this purpose?
5. **Data Updating:** How did you implement data updating within your project? Can you explain the Edit Page and give an example of a LINQ query that illustrates this?
6. **Data Deletion:** How did you implement data deletion in your project? Could you explain the Delete Page and provide an example of a LINQ query related to it?
7. **Join Operations:** How did you execute join operations in your project? Can you explain the related page and provide a LINQ query example with code?
8. **Integration of Operations:** How did you integrate these database operations into your application? Could you outline the workflow for each operation and include relevant code examples?
9. **Transaction Management Strategy:** What strategy did you use for transaction management in your application? What challenges did you encounter in this area?
10. **Challenges Faced:** What were the biggest challenges you encountered during the database operations in your application, and how did you overcome them?