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SQL (Relational Databases)
Basic Commands
1. Creating a Table:
CREATE TABLE table_name ( column1 datatype constraints, column2 datatype constraints, ... );
2. Inserting Data:
INSERT INTO table_name (column1, column2, ...) VALUES (value1, value2, ...);
3. Retrieving Data (SELECT):
SELECT column1, column2, ... FROM table_name WHERE condition;
4. Updating Data:
UPDATE table_name SET column1 = new_value1, column2 = new_value2, ... WHERE condition;
5. Deleting Data:
DELETE FROM table_name WHERE condition;
Intermediate Commands
6. Joining Tables (INNER JOIN):
SELECT columns FROM table1 INNER JOIN table2 ON table1.column = table2.column;
7. Grouping and Aggregating Data:
SELECT column, COUNT(*) FROM table GROUP BY column;
8. Filtering Aggregated Data (HAVING):
SELECT column, COUNT(*) FROM table GROUP BY column HAVING COUNT(*) > 1;
Advanced Commands
9. Subqueries:
SELECT column1 FROM table1 WHERE column2 IN (SELECT column3 FROM table2 WHERE condition);
10. Creating Indexes:
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CREATE INDEX index_name ON table_name (column);

BEGIN TRANSACTION; -- SQL statements COMMIT; -- or ROLLBACK;

11. Transactions (BEGIN, COMMIT, ROLLBACK):