| Chapter TITLE | SQL Basics: Data Retrieval - Multiple Tables |
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| LECTURE TITLE | **Why do We Need Multiple Tables?** |
|---|---|

1  Companies use multiple tables to store data

2  To save space by avoiding repetition

3  Organize data better

4  Make updates easily

5  In SQL, you will be able to map multiple tables using the JOIN clause

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| LECTURE TITLE | SQL Joins (INNER, LEFT, RIGHT, FULL) |
|---|---|

1. JOIN and ON clauses used together will enable you to merge two tables

2. JOIN, ON & AND clause will enable you to merge two tables based on multiple columns

3. There is an export button in SQL editor through which you can download results as .csv file

4. You can assign an abbreviated letter next to the table name to shorten the query length

5. There are multiple kinds of JOIN in SQL: INNER, LEFT, RIGHT, FULL, and CROSS JOIN

6. By default, SQL performs an INNER JOIN

7. LEFT, RIGHT, and FULL JOINS are also called OUTER JOIN

8. UNION clause will enable you to perform FULL JOIN

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| LECTURE TITLE | Cross Join |
|---|---|

1 Concatenation means combining two text strings together

2 CONCAT clause in SQL will help you combine two text strings

3 Knowing Excel will help in your understanding of SQL

4 CROSS JOIN is useful when you do not have any common column between two tables

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| LECTURE TITLE | Analytics on Tables |
|---|---|

1 You would need to merge the tables often to create meaningful insights for business

2 Spend time to understand JOIN thoroughly as you will use it a lot in SQL

3 Finding TOP N / BOTTOM N is another common business use case that you can achieve by ORDER BY

| Chapter TITLE | SQL Basics: Data Retrieval - Multiple Tables |
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| LECTURE TITLE | Join More Than Two Tables |
|---|---|

1  Entity Relationship Diagram (ERD) will help you to understand the relationship between the tables

2  Group_Concat Function will enable you to combine text from multiple rows to one row

3  Whenever you get a requirement from a business stakeholder, break the challenge down into simpler pieces before writing a query