

# SQL Swathimuthyam

*Master Your First Data Skill in just*

**12 Classes**

<input type="checkbox"/> <b>6 Weeks</b> Duration	<input type="checkbox"/> <b>12 Classes</b> Total Sessions	<input type="checkbox"/> <b>Live Online</b> Mode	<input type="checkbox"/> <b>Telugu + Technical</b> Language
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## □ **OUR TEACHING APPROACH: PROBLEMS FIRST, THEORY SECOND**

**We do NOT start with theory. Every concept is introduced through a real problem first.**

You will see a real-world problem a data analyst faces daily → struggle with it → then we teach the concept that solves it.

*This is how real SQL skills are built - not by memorizing syntax, but by solving actual problems.*

## □ **About This Program**

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SQL Swathimuthyam is not just another SQL course - it is a carefully structured, interview-focused, hands-on learning program designed to take you from zero to job-ready in 6 weeks. Every class is taught live in Telugu with full technical depth, combining real-world problem solving with the kind of questions that hiring managers actually ask.

### □ **Program Goal**

Build a SQL problem-solving mindset -not just theory. By the end of this program, you will be able to confidently write SQL queries from scratch, tackle LeetCode-style SQL problems, and walk into any Data Analyst or Data Engineer interview with the skills to succeed.

## **Who Should Join This Program?**

### ✓ **Perfect For You If...**

- You are a beginner with no prior SQL knowledge
- You are a student targeting Data Analyst, BI Analyst, or Data Engineer roles
- You are a working professional wanting to add SQL to your resume
- You want structured, doubt-clearing, live guidance
- You prefer learning in Telugu with clear technical explanations

### ✗ **Not Ideal If...**

- You cannot attend live sessions regularly

## **What You Will Achieve -Your End Outcome**

By the end of SQL Swathimuthyam Batch 1, you will have  
**mastered your FIRST DATA SKILL -completely and confidently.**

## ✔ Concrete Skills You Will Have

- ✓ **Handle real-world SQL data tasks** -Filtering, aggregating, joining, ranking -all in complex multi-step scenarios
- ✓ **Write any SQL query from scratch** -Given a table and a requirement, you can produce the correct query without looking anything up
- ✓ **Write and optimize subqueries** -Correlated subqueries, EXISTS, IN -you understand performance differences
- ✓ **Crack SQL interview rounds** -You have practiced the exact formats and question types used by real interviewers
- ✓ **Master all JOIN types** -INNER, LEFT, RIGHT, FULL, SELF, CROSS -you know when to use each and why
- ✓ **Solve window function problems** -ROW\_NUMBER, RANK, DENSE\_RANK, LEAD, LAG - you can apply these to real interview problems

## □ Roles You Will Be Qualified to Interview For After this course

- Data Analyst
- Business Intelligence Analyst
- SQL Developer
- Reporting Analyst
- Data Engineer
- Product Analyst
- Operations Analyst
- Database Administrator

## □ 6-Week Detailed Curriculum

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Below is your complete week-by-week learning roadmap. Each week builds on the previous one -by Week 6 you will have covered everything needed to ace SQL interviews at companies like TCS, Infosys, Flipkart, Amazon, and top analytics startups.

### WEEK 1 SQL Basics, Filtering & Aggregation

Class	Topic	What You Will Learn
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<b>C1</b>	<b>Introduction to SQL &amp; Databases</b>	What is a database? Difference between SQL and NoSQL. Understanding tables, rows, columns. Setting up your environment (MySQL/PostgreSQL).
<b>C1</b>	<b>SELECT &amp; DISTINCT</b>	Writing your first query. Selecting all columns vs specific columns. Removing duplicate rows with DISTINCT. Real dataset practice.
<b>C2</b>	<b>WHERE Clause -Deep Dive</b>	Filtering rows based on conditions. Combining conditions with AND, OR. Using IN for multiple values. BETWEEN for ranges. LIKE for pattern matching with % and _.
<b>C2</b>	<b>Sorting, Limiting &amp; Aggregation</b>	ORDER BY ASC/DESC. LIMIT and OFFSET for pagination. SUM, AVG, COUNT, MIN, MAX -when and how to use each. GROUP BY deep understanding. HAVING vs WHERE -the most confused interview topic.

## WEEK 2 SQL Joins -Core Concepts

Class	Topic	What You Will Learn
<b>C3</b>	<b>INNER JOIN &amp; LEFT JOIN</b>	What is a JOIN and why it exists. INNER JOIN -matching rows from both tables. LEFT JOIN -keeping all rows from left table. Real business scenarios for each. Row count logic: how many rows does a join produce?
<b>C3</b>	<b>RIGHT JOIN, FULL JOIN &amp; SELF JOIN</b>	RIGHT JOIN and when to use it vs LEFT JOIN. FULL OUTER JOIN -combining both sides. SELF JOIN -joining a table with itself (e.g., employee manager hierarchy). CROSS JOIN -Cartesian product and its use cases.
<b>C4</b>	<b>Join Traps &amp; Interview Scenarios</b>	Common mistakes: joining on wrong keys. Duplicate row explosions. NULL behavior in joins. Practice: 5 interview-style join problems solved live.
<b>C4</b>	<b>Multiple Table Joins</b>	Joining 3 or more tables. Chain joins with aliases. Reading complex join queries. Building a multi-table report from scratch.

## WEEK 3 Advanced Joins -Interview Mastery

Class	Topic	What You Will Learn
<b>C5</b>	<b>Tricky Join Scenarios Part 1</b>	Joining with conditions in the ON clause vs WHERE clause -the difference matters. Joining on non-equal conditions. Self-referencing tables.
<b>C5</b>	<b>Tricky Join Scenarios Part 2</b>	Finding records that exist in one table but NOT the other (anti-join pattern). Using LEFT JOIN + IS NULL as an alternative to NOT IN. Performance implications.

<b>C6</b>	<b>Interview-Oriented Join Questions</b>	Top 10 join questions asked at real companies. Solving: employees with no manager, orders with no customers, finding duplicates via self-join.
<b>C6</b>	<b>Join Practice Marathon</b>	Rapid-fire practice session. Students solve 8 problems independently, then review together. Focus on time and accuracy -building interview speed.

## WEEK 4 Subqueries & Window Functions

Class	Topic	What You Will Learn
<b>C7</b>	<b>Subqueries -IN, EXISTS, Correlated</b>	What is a subquery? Subquery in WHERE (IN operator). EXISTS vs IN -when each is faster. Correlated subqueries -row-by-row processing explained with visuals. Scalar subqueries in SELECT.
<b>C7</b>	<b>Window Functions Introduction</b>	What window functions are and why they changed SQL forever. OVER() clause explained. PARTITION BY - creating groups without collapsing rows. ORDER BY inside OVER(). The difference between GROUP BY and Window Functions with side-by-side comparison.
<b>C8</b>	<b>ROW_NUMBER, RANK, DENSE_RANK</b>	ROW_NUMBER -assigning unique sequential numbers. RANK -with gaps for ties. DENSE_RANK -without gaps. Real use case: find the top 3 earners per department. Interview question: remove duplicates using ROW_NUMBER.
<b>C8</b>	<b>Advanced Window Functions</b>	LEAD and LAG -accessing next/previous row values. Running totals with SUM() OVER(). Moving averages. First/last value in a partition.

## WEEK 5 Practice -Subqueries & Window Functions

Class	Topic	What You Will Learn
<b>C9</b>	<b>LeetCode SQL Problems - Set 1</b>	Solving 6 real LeetCode SQL problems live. Problems include: Second Highest Salary, Rank Scores, Department Top 3 Salaries. Instructor codes alongside students, explaining thought process.
<b>C9</b>	<b>Analytical SQL Scenarios</b>	Real-world scenarios: monthly revenue trends, customer retention analysis, sales rep performance ranking. Building multi-step queries from business requirements.

<b>C10</b>	<b>Interview Pattern Questions</b>	Commonly asked: Nth highest salary, finding consecutive records, gaps in sequences, year-over-year growth. Pattern recognition: how to identify which function to use.
<b>C10</b>	<b>Full Practice Review + Q&amp;A</b>	Students submit solutions. Live review of common errors. Personal feedback. Doubt clearing. Preview of Week 6.

## WEEK 6 SQL Commands, Advanced Concepts & Interview Prep

Class	Topic	What You Will Learn
<b>C11</b>	<b>CREATE TABLE &amp; Data Types</b>	CREATE TABLE syntax. Choosing the right data types: INT, VARCHAR, DATE, DECIMAL, BOOLEAN. Column constraints at creation time. Viewing and describing table structure.
<b>C11</b>	<b>INSERT, UPDATE, DELETE</b>	INSERT INTO -single and multi-row inserts. UPDATE - modifying specific rows safely. DELETE -removing rows with WHERE clause. The danger of running UPDATE/DELETE without WHERE.
<b>C12</b>	<b>TRUNCATE vs DELETE vs DROP</b>	DELETE -removes rows, can be rolled back, slow. TRUNCATE -removes all rows, faster, cannot be rolled back. DROP -removes the entire table and structure. Interview question: difference between all three with use cases.
<b>C12</b>	<b>Constraints -PK, FK, UNIQUE, NOT NULL, CHECK</b>	Why constraints matter -data integrity. PRIMARY KEY - uniquely identifies each row. FOREIGN KEY -enforcing relationships between tables. UNIQUE constraint. NOT NULL. CHECK constraint. Seeing what happens when constraints are violated.

<b>C11</b>	<b>Views &amp; Indexes</b>	What is a VIEW and why to use it. Creating, updating, and dropping views. Indexed views. What is an INDEX and how it speeds up queries. Types of indexes: clustered vs non-clustered. When NOT to use indexes.
<b>C11</b>	<b>Triggers &amp; Stored Procedures</b>	What is a TRIGGER -before/after insert/update/delete. Real use case: auto-logging changes. STORED PROCEDURES overview -parameterized SQL blocks. Difference between procedures and functions.
<b>C11</b>	<b>Query Performance Basics</b>	Why some queries are slow. Reading a query execution plan. Avoiding full table scans. Best practices: use WHERE early, avoid SELECT *, avoid functions on indexed columns. N+1 query problem overview.
<b>C11</b>	<b>Normalization &amp; Schema Design Basics</b>	What is normalization and why it matters. 1NF, 2NF, 3NF explained simply. Practical example: designing a clean database schema. Common denormalization patterns for analytics.

<b>C12</b>	<b>SQL Interview Questions - Beginner to Intermediate</b>	Top 30 SQL interview questions with answers. Question categories: filtering, joins, aggregation, subqueries. How to structure your answer in interviews. What interviewers are actually looking for.
<b>C12</b>	<b>SQL Interview Questions - Advanced + Mock</b>	Advanced questions: window functions, performance, design. Live mock interview simulation -2 students interviewed on camera. Full answer breakdowns. Feedback session.
<b>C12</b>	<b>Complete Revision &amp; Concept Map</b>	Full 6-week visual revision. Every major concept connected on one page. Cheat sheet walkthrough -what to review the night before an interview.
<b>C12</b>	<b>Final Doubt Clearing &amp; Certification</b>	Open Q&A -any topic from the full course. Final assessment overview. Guidance on next steps: portfolio projects, job application strategy.

## □ Course Structure & Schedule

Category	Detail	Format	Notes
<b>Duration</b>	6 Weeks	Live Online	All sessions recorded
<b>Total Classes</b>	12 Classes	2 per week	Each class ~100 minutes
<b>Language</b>	Telugu + Technical	Bilingual	Concepts in Telugu, SQL in English
<b>Batch Size</b>	Founder Batch	Limited Seats	Small batch for personal attention
<b>Fee</b>	₹3,000	One-time	Founder pricing - will increase next batch
<b>Doubt Clearing</b>	Every class	Live Q&A	Ask questions during and after class
<b>Practice Problems</b>	LeetCode-style	Weekly	Provided after every class

## □ □ How We Teach - Hybrid Method

Every class follows a proven structure designed to maximize understanding and retention. Here is exactly what happens in each 90-minute session:

Time	Phase	What Happens
0–10 min	Warm-Up & Recap	Quick recap of the previous class. 2–3 rapid-fire questions to test memory. Doubt clearing from homework.
10–35 min	Concept Introduction	New topic introduced in Telugu with visual whiteboard. Real-world analogies used to explain every concept. Why this concept matters in interviews -explained explicitly.
35–70 min	Live Query Writing	Instructor writes SQL queries live on screen. Students code along simultaneously. Common mistakes demonstrated and corrected in real time.
70–85 min	Problem Solving Practice	LeetCode-style or interview-pattern problems solved together. Students attempt first, then solution explained step by step.
85–90 min	Homework & Wrap-Up	3–5 practice problems assigned. Next class preview given. Questions answered.

### □ Why This Approach Works

- Learning in your native language removes barriers -you focus on SQL, not on translating English
- Live coding means you see real mistakes happen and get fixed -more valuable than polished slides
- Interview-first mindset means everything you learn connects directly to getting hired
- Small founder batch = the instructor knows your progress personally

□ **IMPORTANT - BATCH 1 IS FOUNDER PRICING**

The ₹3,000 price is exclusively for Batch 1 students. The next batch will be priced higher. Once seats are filled, enrollment closes. Do not miss this opportunity to start your data career at this price.

## **SQL Swathimuthyam -Batch 1**

*Your first data skill. Your career breakthrough. Starting now.*