DATAPENCIL — SQL 100-QUERIES CHALLENGE
(OFFICIAL RULEBOOK)

100 SQL QUERIES + 1 FINAL SUMMARY PRESENTATION

RULE 1 — CHALLENGE DURATION (15-DAY COMPLETION WINDOW)

- The challenge must be completed within a maximum of 15 days.
- The challenge duration starts from your from registration date
- Learners may complete and submit all parts earlier than 15 days.
- ⏱ Certificate Completion Duration
- The actual number of days taken to complete the challenge will be mentioned on the certificate as:

    "Completion Duration: X Days"

RULE 2 — CHALLENGE STRUCTURE

This challenge consists of:
✓ 100 SQL Queries (divided into 5 parts)
✓ 1 Final PPT / PDF Presentation summarizing your work and learnings

RULE 3 — PART/STAGE-WISE TASK BREAKDOWN

Part 1 — Project Setup +SQL Basics (20 Queries)

- Database creation
- Table creation
- Importing datasets
- Understanding table relationships
- Basic SELECT
- WHERE filtering
- ORDER BY
- LIMIT
- Basic comparison operators (=, >, <, BETWEEN)

📁 Submission file format : Part1_YourName.sql

PART 2 – Core SQL & Aggregation (20 Queries)

- SELECT with multiple columns
- INNER JOIN, LEFT JOIN
- Aggregate functions (COUNT, SUM, AVG, MAX, MIN)
- GROUP BY
- HAVING
- Filtering aggregated data
- DISTINCT values
- Basic business questions

📁 Submission file format : Part2_YourName.sql

PART 3 – Subqueries & Analytical Thinking (20 Queries)

- Subqueries in WHERE
- Correlated subqueries
- IN, NOT IN
- Comparing values with averages & maximums
- Multi-level filtering
- Logic-driven questions

📁 Submission file format : Part3_YourName.sql

PART 4 – Business Logic & Conditional Analysis (20 Queries)

- CASE WHEN
- Conditional labeling (Free vs Paid, Active vs Inactive)
- Date functions (YEAR, MONTH)
- Time-based analysis
- Business KPIs
- Funnel thinking
- Drop-off analysis
- Insight-oriented queries

📁 Submission file format : Part4_YourName.sql

PART 5 – Advanced SQL & Real-World Analytics (20 Queries)

- Common Table Expressions (CTEs)
- Window functions (RANK, LAG, LEAD, NTILE)
- Advanced joins
- Trend analysis
- Growth calculations
- Funnel & cohort logic
- Pareto (80/20) analysis
- Platform health metrics

📁 Submission file format : Part5_YourName.sql

Final Task — Summary Presentation (Mandatory)
- Create a 5–10 slide PPT / PDF summarizing:
    - What you built and analyzed
    - Key SQL concepts used
    - Important insights from the dataset
- This presentation should summarize your work, not list raw SQL queries.

📁File format : Ppt/pdf - Post on LinkedIn & then provide link of your post via submission form.

RULE 4 — SUBMISSION GUIDELINES

- Submissions will be accepted only through the official submission form.
- Submissions are part-wise, not day-wise.
- Parts must be submitted in sequence (Part 1 → Part 5).
- All parts and the final presentation must be submitted within 15 days.
- SQL files must be submitted only in .sql format.
- Final submission is mandatory, where you must provide the link to your LinkedIn post for verification.
- Late submissions after 15 days will not be accepted.

RULE 5 — SUPPORT & COMMUNICATION

- All official updates will be shared via the DataPencil WhatsApp Channel.
- For administrative support only (registration, access, submission issues):
- 📞 WhatsApp: +91 6394371377
- Challenge is absolutely **free to join** - no cost - **complete and get certificate**

Need a Little Extra Support? (Optional)

- However, if at any point you feel stuck or would like expert eyes on your SQL logic, we offer optional, personalised guidance for those who feel they need extra support.
- What this support includes:
- Daily review of your SQL queries
- Clear, constructive feedback focused on improvement
- Doubt-clearing assistance during the challenge period
- 💛 Contribution for Guidance: ₹399

(This contribution simply helps us dedicate time for personalised mentoring and learner support.)

*****Learning is our priority — guidance and feedback exist only to support learners who genuinely need it.

FREE

RULE 6 — CERTIFICATION CRITERIA

- To receive the DataPencil Certificate, learners must:
- ✓ Submit all 5 SQL part/stages files
- ✓ Submit the final PPT / PDF presentation
- ✓ Complete all tasks within 15 days
- ✓ Achieve minimum 75% accuracy
- ✓ Follow the file-naming format strictly

RULE 7 — IMPORTANT NOTES

- This is a self-paced, non-guided SQL practice challenge.
- The focus is on logic-building and pattern-based learning.
- Any rule violation may result in disqualification without certificate.

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www.datapencil.org

✉ contact@datapencil.org