SQL For Everybody

(Website: www.aiquest.org, Cell: +8801704265972)

-Demo Class: Link!   -Student Feedback: Link!

Course Instructor:

Mr. Shoaib Rahman Shuvo [LinkedIn]

Data Engineer, V2 Technologies Ltd
M.Sc. in Data Science

Module 1: Introduction to Database Engineering (2 hours)
- Understanding Data & its Importance
- Introduction to Databases and their Significance
- What is Database Engineering
- Database Engineering vs Other Data Related Jobs
- Database Engineer Job Description, Roles & Responsibilities
- Importance of SQL
- Q&A Session

Module 2: Database Fundamentals (4 hours)
- Installing PostgreSQL
- Introduction to different IDEs
- Understanding Database Management Systems (DBMS)
- Exploring Database Keys
- Database Structure
- ACID Properties
- Row-oriented & Columnar Databases / OLTP & OLAP
- Database Design and Normalization
- Database Denormalization / Data Warehousing

Module 3: SQL Fundamentals (8 hours)
- Introduction to SQL and How it Works
- Background of SQL
- Working with Different Data Types
- SQL CRUD Operations
- Understanding SQL Joins
- Implementing Constraints
- Working with Arrays and JSON
- Handling Null Values

Module 4: Advanced Querying (6 hours)
- SQL Subqueries
- Analytical Functions
- Common Table Expressions (CTEs)
- Data Transformation with SQL

Module 5: AWS & Cloud Database Management (4 hours)
- Installing Databases on AWS Cloud Platforms
- Cloud Security Management
- Understanding Security Groups
- Database Replication
- Working with Snapshots
- Cloud Database Backup and Recovery
- Database Monitoring

Module 6: Database Administration (4 hours)
- Role Management
- Data Security Management
- User Management
- Data Backup Strategies
- Data Recovery Techniques

Module 7: Advanced SQL Concepts (6 hours)
- Introduction to PL/pgSQL
- Transaction Control in SQL
- Working with Temporary Tables
- Creating and Using Functions
- Stored Procedures
- Triggers in SQL
- Custom Data Types
- Function Overloading
- Database Locks

Module 8: Database Optimization (6 hours)
- Creating and Utilizing Views
- Indexing for Performance
- Partitioning Data in Databases
- Triggers for Optimizing Workflows
- Stored Procedures for Efficiency
- Query Tuning Strategies

Module 9: Bonus Topics (4 hours)

- Cost Optimization in Database Management
- Problem Solving with SQL
- Understanding Over-Optimization and Its Drawbacks
- Strategies for Resolving Over-Optimization
- Data Migration Concepts
- Basics of Reporting from Databases

Module 10: Project, Final Assignment, and Job Guidelines (4 hours)

- Practical Project involving Database Design and Querying
- Hands-on Assignments for Practice
- Course Review and Recap
- Q&A Session
- Course Conclusion and Next Steps

To Enroll in Course:

Conatct: +8801704265972 (Call/WhatsApp)

Sohan Khan, Course Coordinator at aiQuest Intelligence

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We are thrilled to offer **three full scholarships** for the highly acclaimed "SQL for Everybody" course. If you're looking to dive into the world of SQL and boost your database skills, this is your chance to seize this amazing opportunity.

Application Process:

1. Download Course Outline PDF: Begin by accessing the course outline PDF. You'll find the application link on the last page of the document.

2. Read the Instructions: Take your time to carefully read and understand the instructions provided.

3. Follow these Steps:

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  b. Share on Social Media: Post the screenshot and your opinion on both your Facebook and LinkedIn profiles, don't forget to tag our pages. Let your connections know about the opportunity you're pursuing.

  c. Engage with the Community: Join the Study Mart Facebook group and share your post there as well. Engaging with fellow learners can be incredibly insightful.

  d. Complete the Application Form: Fill out the application form with accurate details. Pay close attention to ensure all fields are accurately filled. [Apply Now]

Application Deadline: 02 September 2023