
SQL DATABASE MANAGEMENT



Course Curriculum

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Meet The Founder

AMOL S. PANDIT



Amol S. Pandit is the founder and CEO of Omnilearn Professionals Private Limited, a global professional training and corporate learning organization focused on developing future-ready talent. He holds a master's degree in mechanical engineering from BITS Pilani and brings strong expertise in engineering, quality systems, and organizational excellence.

With a decade of experience as an engineer in the Ministry of Civil Aviation, he gained deep exposure to quality management, regulatory compliance, and operational governance. He later transitioned into professional training and consulting, specializing in Lean Six Sigma, project management, business analytics, and leadership development, delivering programs for Fortune 500 companies and leading institutions.

A certified Lean Six Sigma Master Black Belt, Agile Scrum Master, and Business Analyst Professional, Amol is also a recipient of the Indian Achievers Award for his contribution to education and skill development. Under his leadership, Omnilearn has become a trusted global learning partner across multiple high-impact domains.

ABOUT OMNILEARN

Omnilearn Professionals Private Limited is a global professional training and corporate learning organization focused on building future-ready skills for individuals and enterprises. With a presence in India, the UAE, and Canada, Omnilearn delivers industry-relevant classroom and corporate training across domains such as SQL database management, project management, data science, AI & ML, SAP, IT, cybersecurity, quality management, and leadership development. Their hands-on, outcome-driven approach combines instructor-led sessions, real-world projects, and career support, including resume building, interview preparation, and job assistance. Omnilearn's mission is to empower professionals with globally relevant skills that drive measurable business impact and long-term career growth.

ABOUT THE COURSE

SQL Database Management

SQL Database Management focuses on designing, creating, maintaining, and optimizing relational databases using Structured Query Language (SQL). This course equips learners with a strong foundation in database concepts, data modeling, and relational database architecture, along with hands-on expertise in writing efficient SQL queries. Participants learn to manage data securely, ensure data integrity, perform complex data retrieval, and handle transactions, views, stored procedures, and triggers. The program is designed to prepare professionals for real-world roles in database development, data analysis, application support, and enterprise data management.

WHY CHOOSE US?



Expert & Personalized Mentorship



Lifelong Learning Resources



Free Lab Access



End to end placement support



SQL Global Certification Guarantee



Complementary Resume Building from Experts



Guaranteed Internship

ABOUT PLACEMENTS

01.

We offer 100% Placement Assistance, backed by a strong network of 300+ Placement and Internship Partners to support your career growth.



02.

We have successfully placed more than 5000 candidates throughout our journey



03.

Students who complete the mandatory training program qualify for our placement assistance program



04.

Real-time training and excellence make Omnilearn the recruiters' top choice



WHY SQL Database Management AT OMNILEARN?



Comprehensive training on the latest SQL technologies and tools



Access to expert instructors and a supportive community of fellow learners



ISO and Global Quality Control Board Accredited



Real-time end-to-end project implementation-based training



Flexible learning options to fit your schedule



Guaranteed SQL Global certification



LMS Subscription for Lifetime



100% Job Support end-to-end



6-Month Internship Certificate



Free Server access

CERTIFICATION PROCESS

1

Counseling:

Register for the course and follow the enrollment process

2

Engage in the Learning Process:

Attend all lectures, webinars, and tutorials. Participate actively in discussions and complete all the projects assigned by the instructor

3

Course Completion Certificate:

Complete the course as per the schedule and receive the globally accredited certificate from Omnilearn.

4

Global Certification Exam:

Get complete support for the Global Certification Exam, free exam dumps, and guidance to update your resume and LinkedIn profile with your new certification.



CERTIFICATE OF ACHIEVEMENT

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Full Name

Who Has Successfully Completed Our Training Program On
Course Name

CERTIFICATE NO: OMNL-XXXXXXXX

DATE OF ISSUE: XX-XX-XXXX



AUTHORIZED SIGNATORY



COURSE CONTENT

Data and Database

- Data in history and data storage media (today and in the past)
- Types of Databases and Database Applications
- Basic Definitions & Typical DBMS Functionality
- Example of a Database
- Main Characteristics of the Database Approach & Types of Database Users
- Advantages of Using the Database Approach
- Historical Development of Database Technology
- Extending Database Capabilities
- When Not to Use Databases

Database System Concepts and Architecture

- Data Models and Their Categories
- History of Data Models
- Schemas, Instances, and States
- Three-Schema Architecture
- Data Independence
- Assignment of fiscal year variant to company code
- DBMS Languages and Interfaces
- Database System Utilities and Tools

COURSE CONTENT

- Centralized and Client-Server Architectures

- Classification of DBMS

Data Modeling & Relational Data Model

- Classification of DBMS

- Relationships

- Unary, binary, ternary relationships

- 1-1, 1-M, M-M relationships

- Cardinality and modality

- Intersection data and associative entities

- Relational data model & DB Constraints

- Operations & Transactions

- Constraint violations

- History of relational DB model & Relational DB Terminology

- Relation and tuple

- Implementing relationships

- Data retrieval

- SELECT, PROJECT, JOIN

- Data integration

- Referential integrity

COURSE CONTENT

Relational Algebra & Relational Calculus

- Relational algebra overview
- SELECT & PROJECT operations
- Set theory operations
- JOIN & DIVISION
- Additional operations
- Query examples
- Tuple relational calculus
- Domain relational calculus

Data Modeling (ER & UML)

- Conceptual data models
- Sample database application
- Entities, attributes, keys
- Relationship types and constraints
- Weak entities & ER design refinement
- ER diagrams and naming conventions
- Design issues
- UML Class diagrams

COURSE CONTENT

Structured Query Language (SQL)

- SQL data definition
- SQL data types
- Constraints in SQL
- SQL as DML
- Create tables
- Update tables
- SELECT queries
- GROUP BY & ORDER BY
- Aggregate functions
- Joins
- Subqueries
- Triggers
- Views
- Schema modifications
- Complex queries

COURSE CONTENT

Scenario-Based Examples

- Business case studies
- Real-world SQL scenarios
- Data analysis scenarios
- Performance optimization examples
- Business case studies
- Real-world SQL scenarios

Capstone Project

- Database design
- ER modeling
- SQL implementation
- Optimization
- Final presentation
- Database design



OUR ACHIEVEMENTS



INDIAN ACHIEVERS AWARD



ON-SITE TRAININGS



ON-SITE TRAININGS



OUR CANDIDATES PLACED AT

5,000+ students trained at Omnilearn are now thriving in top companies across the globe. The next success story could be you.



REVIEWS ★★★★★

Click on the link and check all our candidate's feedback:

<https://theomnilearn.com/courses/coding/sql-database-management#give-review>

Rohan Mehta →

“The SQL Database Management course at Omnilearn exceeded my expectations. The trainer explained concepts very clearly with real-time practical examples. Doubts were resolved instantly, even outside class hours. Truly professional training.”

Sneha Kulkarni →

“What I liked most was the hands-on approach. Every SQL concept was backed by practical exercises. Omnilearn’s 24×7 support team was always available for queries. Highly recommended for beginners and professionals.”

Ankit Sharma →

“The trainer has deep industry knowledge and explains SQL in a very simple way. Real-world scenarios made learning easy. I gained a lot of confidence in writing complex SQL queries.”

Kunal Verma →

“After completing this course, I was able to crack interviews confidently. Omnilearn also guided me with interview preparation and placement support. Very satisfied with the learning experience.”

Aditya Joshi →

“This course is perfect for anyone serious about building a career in data or IT. Real-time SQL practice, clear explanations, and excellent mentoring throughout the course.”

Aishwarya Deshpande →

“I was placed shortly after completing this course. The SQL knowledge gained here played a key role in my interviews. Thanks to Omnilearn for quality training and placement guidance.”

Monika Choudhary →

“Omnilearn truly focuses on practical learning. Every concept was demonstrated live using SQL queries. Query resolution was quick and detailed.”

CONTACT US



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