

★ AI-INTEGRATED COURSE

NXT CERTIFIED DATABASE MANAGEMENT SYSTEM & (DBMS)

Unlock your potential as a Database Management expert!

Duration: 6 Month | **Certificate** · Intermediate | **Eligibility:** Basic understanding of computer science concepts and familia

OVERVIEW OF THE COURSE

Welcome to the NxT Certified Database Management System (DBMS) course! This comprehensive program is designed to equip you with the essential knowledge and skills required to manage databases effectively. Throughout the course, you will learn: The fundamentals of database systems SQL and its applications Database design and norm...

- Hands-on SQL practice
- Learn advanced database concepts
- Focus on data security
- Industry-relevant curriculum
- Expert faculty guidance



6 Month DURATION

8 SUBJECTS

4 PROJECTS

13 TOOLS

JOIN NOW →

WhatsApp us

WE ARE AVAILABLE AT
600+ LOCATIONS

NOT SURE WHICH COURSE IS RIGHT FOR YOU?
Choose the Best Course for You - Try our AI-Powered Career Counselling for FREE

Start free →

YOUR NEAREST ISDM NxT CENTRE
Sumit Das
S.c Ghosh Street, Shyamnagar Chowrongi, Maa Annapurna Building, Beside Bazar Kolkata - 743144, North 24 Parganas, West Bengal - 743144
Call / WhatsApp: **9073257334** · isdmnxt.kolkata@yahoo.com

Scan to enquire

COURSE CURRICULUM

What you will learn

01 Subjects → | 02 Projects → | 03 Tools → | 04 AI Integration

01 Subjects & modules

6 subjects with the topics you will learn

01 Introduction to Databases & DBMS Concepts

- Structured, Semi-Structured, And Unstructured Data
- Data And Information
- DBMS And RDBMS Concepts
- Database Architecture Tiers
- Hierarchical, Network, And Relational Models
- ACID Transaction Properties
- Database Abstraction Levels

02 ER Model and Relational Schema

- Entity, Attribute, And Relationship Fundamentals
- Attribute Types And Representation
- Keys And Key Constraints
- Relationship Cardinality And Participation
- ER Diagram Symbols And Notation
- Mapping ER Models To Relational Tables
- Relational Schema Elements And Design

03 SQL – DDL, DML, DCL, Queries & Joins

- SQL And Relational Query Foundations
- DDL Commands And Table Structure
- DML Data Manipulation
- DCL Privileges And Access Control
- Filtering Sorting And Limiting Queries
- Aggregate Functions And Grouping
- Database Constraints

04 Advanced SQL Operations & Normalization

- Nested Queries And Subqueries
- Grouping And Filtering Aggregates
- SQL Set Operations
- Creating And Managing Views
- Indexing Concepts And Usage
- SQL Injection Prevention
- Database Normalization

05 Transactions, Backup & Security

- Transaction Control And ACID
- SQL User Permissions And Roles
- Concurrency Control And Locking
- SQL Error Handling And Logging
- Database Backup And Restore
- Database Import And Export
- Banking Transaction Processing

06 Advanced ER Concepts & Extended Modeling (EER)

- EER Model Concepts And Features
- Superclass-Subclass Inheritance And Constraints
- Specialization And Generalization
- EER Diagram Notation And Representation
- Mapping EER Models To Relational Schemas
- SQL Joins For Relational Models
- ER And EER Comparison And Applications

02 Projects & assignments

Hands-on work for your portfolio

P1 Design a normalized database for a small business.

P2 Develop a SQL-based application to manage customer data.

P3 Create a data security plan for a sample database.

P4 Implement a backup and recovery strategy for a database.

03 Tools & software you will master

4 industry tools

MySQL

PostgreSQL

Oracle

Microsoft SQL Server

04 AI Integration

How AI is used inside the work of this course

AI SUBJECT

AI Fundamentals & Prompt Engineering

- **AI Basics and Everyday Uses**
- **Generative AI: How It Works**
- **Prompt Engineering Foundations**
- **AI for Study and Workplace Tasks**
- **Fact-Checking and Reliable Research**
- **Privacy, Safety and Responsible Use**
- **Integrated Practice and Review**

AI SUBJECT

AI for Programming & Web Development

- **AI Pair Programming Setup: VS Code and GitHub Copilot**
  GitHub Copilot in VS Code: Sign in, use inline suggestions and Chat, then try agent mode o
- **AI-Assisted Front-End Development**
  GitHub Copilot in VS Code: Use inline suggestions and Chat while building and refining a r
- **Python Coding and AI Agents in the Editor and Terminal**
  Claude Code in Terminal and project files: Install or access it using the current official
- **GitHub Team Workflow and AI Code Review**
  GitHub Copilot code review in GitHub pull requests: Request a review on a practice pull re
- **Calling AI APIs from Your Own App**
  OpenAI API in A local app or server-side project: Create an API key with available account
- **AI-Assisted Testing, Debugging and Documentation**
  GitHub Copilot Chat in VS Code: Use project context to suggest tests or explain a failure,
- **AI-Assisted Deployment and Final Project**
  GitHub Copilot in VS Code: Ask for help preparing or explaining deployment files, then rev

AI TOOLS YOU WILL USE

CH ChatGPT

Google Gemini

GitHub Copilot

VS Code

GitHub

Claude

MC Microsoft Copilot

Perplexity

NotebookLM

CAREER OPPORTUNITIES

Where this course can take you

Database Administrator
Fresher salary: ₹3.0-4.5 LPA*

Data Analyst
Fresher salary: ₹2.5-4.0 LPA*

Database Developer
Fresher salary: ₹3.0-5.0 LPA*

Data Scientist
Fresher salary: ₹4.0-6.0 LPA*

Information Systems Manager
Fresher salary: ₹4.5-7.0 LPA*

Freelancing & own business

- Database design and consulting
- SQL query optimization services
- Data analysis for businesses
- Custom database applications

Industries that hire

- Information Technology
- Finance
- Healthcare
- E-commerce
- Telecommunications

Grow further

- NxT Certified Data Science Program
- NxT Certified Software Development Course
- Advanced Database Management Techniques
- Cloud Database Solutions

Certification

Upon completing the course and passing the assessment, you will receive an NxT Certified Database Management System certificate to showcase your skills.

Practical AI-integrated project | Final online test | Verifiable certificate

JOB SUPPORT

How we help you get a job

1. Resume building assistance
2. Mock interview sessions
3. Direct job offers through partnerships
4. Guidance on job applications

* Typical fresher salary ranges in India; the actual salary depends on the employer, the city and your skills.

WHY START NOW

Your future is built by the skills you learn today.

Companies hire people who can do the work. People who use AI well at work are in demand - this course teaches you the job skills and the AI tools together. Every month you practise adds a project to your portfolio - the best time to start is now.

18+	600+	2,708+	390+
Years of training experience	Centres across India	Job offers to our students	Hiring companies

UNIQUE FEATURES AT ISDM NxT

- ✓ Free pre-counselling to choose the right course
- ✓ Study material, attendance, assignments, exams and results online from day one
- ✓ 24x7 AI trainer (ChatNxT) for your doubts
- ✓ Experienced, rated trainers and daily class feedback
- ✓ Practical lab sessions and live projects
- ✓ Monthly online mentorship sessions
- ✓ Resume, mock interviews and job offers in your student dashboard
- ✓ Freelancing and start-up guidance

● LIVE PLACEMENT DATA

Latest job offers to ISDM NxT students

Updated 20 Nov 2026



Gaurav M.
India
Java Software Development Engineer
Health Catalyst



Geeta K.
New Delhi
tellecaller for digital marketing
balajimarketingexperts



Anand S.
Muvattupuzha
Hiring Junior Account Executive J...
CorpZop



Adarsh S.
Ghugus
TGT Computer Science
Adani Foundation



Priyanka Y.
Mumbai
Data Entry Operator (Full-time) -...
CorpZop



Rajan S.
Ahilyanagar
Computer Trainer
Enlearning skill development Ltd

Job offers shared with our students through the ISDM NxT job network. See all at isdmnext.in/latest-placement

LIMITED SEATS · VALID TILL 30 NOV 2026

FREE Ambassador Affiliate Programme

Complete your admission within **10 days** and join the ISDM NxT Ambassador Affiliate Programme free of cost: refer friends, earn referral rewards as per the programme and get featured on the ambassador leaderboard.

CLAIM NOW

TAKE THE FIRST STEP

Book your FREE counselling session today

Meet our counsellor, see the lab, get your doubts answered and know the current fees and offers for your centre.

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Try it FREE →
isdmnext.in/course-for-you

01
Counselling
Free guidance to pick the right course

02
Training
Practical classes, labs and projects

03
Mentoring
Experts, AI trainer and feedback

04
Placement support
Resume, interviews and job offers

What you get with this course

- Comprehensive study material
- Hands-on practical lab sessions
- Live projects for real-world experience
- 24x7 AI trainer support
- AI career counselling sessions
- Interview preparation guidance
- Job offers in student dashboard
- Certification upon completion

ISDM NxT Head Office: 309, Saffron Plaza, Airport Road, Vadodara, Gujarat, 390022 · +916263625594 · inquiry@gmail.com

Fees depend on the centre and current offers - ask your counsellor. Course content may be updated to stay current with industry needs. · isdmnext.in