Database Administration Bootcamp

Become a Database Administrator for the AI Economy — Learn DBA Management, AI Workplace Skills & Career Readiness

About Vijay Computer Academy

Vijay Computer Academy (VCA) is a GLOBAL Workforce Transformation Institution empowering learners to transform their future through technology education, workforce-ready skills, employer-aligned career training, industry-recognized IT certifications, and workforce-funded career pathways.

For over 35 years, VCA has helped beginners, career changers, and aspiring professionals build confidence, develop job-ready skills, and access meaningful opportunities in today's evolving digital and AI-driven economy.

Program Highlights

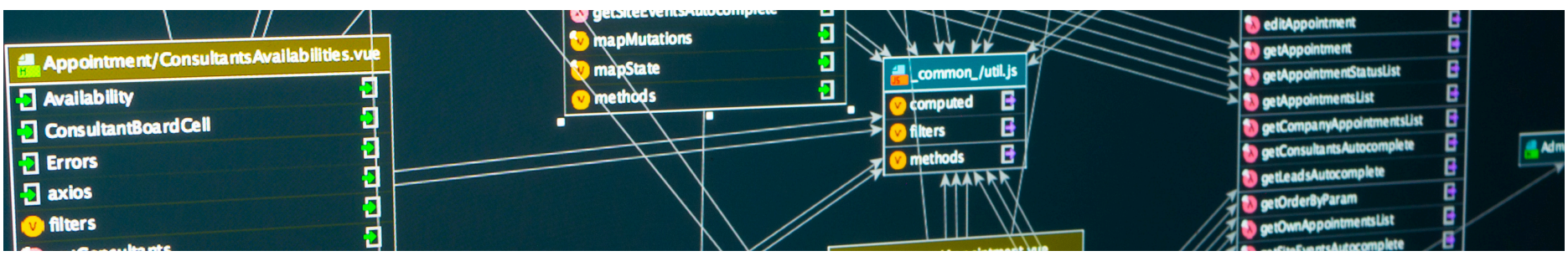
Build a strong foundation in database administration and develop the practical skills needed to install, configure, manage, secure, and maintain enterprise databases. This beginner-friendly, instructor-led online program prepares learners for entry-level database administration roles through hands-on training in SQL, database management, backup and recovery, performance optimization, and real-world administrative tasks.

- **Beginner-first design**: Starts with the very basics of computers and gradually builds up.
- **Format:** Live, instructor-led online classes offered over Zoom
- **Capstone Project**: Students apply everything learned to a real-world databases project.
- **Career Support**: AI powered career support resources.
- **NEW**: AI Workplace Productivity & Career Readiness Program Included

Duration: 9 Weeks (90 hours)

Prerequisite:

- No prior IT skills or tech experience required
- Working knowledge of English language is required



Program Curriculum

Module Name	Hours
Basics of Computer	10
Introduction to Database Management Systems	02
Database Architecture and Modeling	02
Entity Relationship	04
Relational DBMS Model	04
Database Normalization	05
Relational Algebra & Relational Calculus	05
Introduction to SQL	20
Backup and Recovery	04
Database Security and Integrity	04
Oracle	10
AI Workplace Productivity & Career Readiness	20
Total Contact Hours	**90**

Module Description

1. Basics of Computer

This module introduces students to the fundamentals of computers, covering hardware, software, operating systems, and how these components work together to run applications and process data.

2. Programming Techniques

Students learn basic programming concepts such as variables, functions, loops, and algorithms. These techniques provide foundational knowledge to understand how code is

written and how applications function.

3. Introduction to Database Management Systems (DBMS)

This module introduces database management systems, explaining their role in storing, managing, and retrieving data. Students learn how DBMS makes it easier to organize and access data efficiently.

4. Database Architecture and Modeling

Students learn about the architecture of database systems, including how data is stored, structured, and accessed. This module provides insight into the inner workings of DBMS.

5. Entity Relationship (ER)

Introduces students to the concept of Entity-Relationship (ER) diagrams, used to represent the structure of a database visually. Students learn how to identify entities, relationships, and attributes in database design.

6. Relational DBMS Model

This module focuses on the relational model, explaining tables, rows, columns, and keys. Students learn how to structure data in a relational database and the relationships between different data sets.

7. Database Normalization

Covers the process of normalization to eliminate data redundancy and ensure data integrity. Students learn how to break down large data sets into smaller, more manageable tables while maintaining relationships.

8. Relational Algebra & Relational Calculus

Introduces relational algebra and relational calculus, which are mathematical concepts used for querying and manipulating relational databases. Students learn the foundation of how data is queried in relational databases.

9. Introduction to SQL

Students learn Structured Query Language (SQL), the standard language for interacting with databases. This module covers basic SQL commands such as SELECT, INSERT, UPDATE, DELETE, and JOIN operations.

10. Backup and Recovery

This module focuses on the importance of database backup strategies to prevent data loss. Students learn various backup and recovery techniques to ensure database availability and data integrity.

11. Database Security and Integrity

Covers the best practices for securing databases and maintaining data integrity. Students

learn about encryption, user roles, permissions, and how to protect databases from unauthorized access and corruption.

12. Oracle

Students are introduced to Oracle Database and its tools, such as Oracle SQL Developer. This module covers Oracle-specific features, hands-on SQL practice, and provides an in-depth understanding of Oracle's database architecture.

13.AI Workplace Productivity & Career Readiness

Develops practical AI skills for productivity, professional communication, workplace efficiency, and career readiness in today's digital environment.

Program Outcome

✔️ Earn **Database Administration Bootcamp Completion Certificate**

✔️ Students gain exposure to learning content aligned with the objectives of the following industry-recognized IT certifications:

- Oracle Database SQL Certified Associate Certification
- INF-201: Information Technology Specialist Databases (Pearson)
- It also builds practical AI workplace skills and foundational AI literacy aligned with leading global programs such as DeepLearning.AI – AI For Everyone, Google AI Essentials, and IBM AI Foundations.

Please note: The program curriculum is aligned with relevant certification exam objectives; however, the program does not include dedicated exam preparation instruction, structured certification prep hours, or exam coaching.

✔️ Pathway to entry level job opportunities

✔️ VCA AI-powered job search resources to navigate the job market

Career Outcome

Database skills are in high demand in the U.S., with the Bureau of Labor Statistics projecting a 4% growth for database administrators and architects from 2024 to 2034, translating to about 7,800 job openings annually due to retirements and role transitions. Professionals with strong database expertise are highly valued, often earning significantly more than those without these skills, as companies increasingly rely on data-driven decision-making across industries.

Entry Level Job Roles

Database Administrator

Database Developer

SQL Associate

SQL Developer

Database Operations Associate

Enrollment Process

1. **Schedule a Discovery Call**
   The student contacts VCA and schedules a discovery call with an advisor.
2. **Choose the Right IT Program**
   An advisor helps the student identify the best IT program and career pathway based on their goals. Students can also:
   i. Watch recorded information sessions for detailed program insights.
   ii. Book a personalized career consultation by phone or Zoom to ask further questions.
3. **Select Payment or Funding Options**
   Once the student decides on a program, VCA helps them choose and set up the most suitable tuition payment or funding plan.
4. **Complete Enrollment Paperwork**
   While funding and payment arrangements are being finalized, VCA guides the student through the required enrollment documents.
5. **Receive Class Access & Begin Training**
   After enrollment and payment process is complete, the student receives their Zoom class link and is ready to start training.

Contact Us

- Inquiry Form
- Book a FREE call with our admission team
- Schedule a personalized career consultation
- Call / Text / WhatsApp us at +1-832-469-1314
- Free info sessions and trial class

Transforming lives through technology!

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