



**Edison College Canada**  
SINCE 1973  
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# Database Administration

## Diploma

53 Weeks Program





**Program Duration:**  
53 weeks/1060 Hours



**Delivery Methods:**  
In-Class or Online



**Campus Location:**  
Victoria, BC

## Program Description

The Diploma in Database Administration program is designed to equip students with the essential skills and knowledge required for a successful career in database management. With the Database Administrator Course, students learn how to use database management systems and tools to ensure data integrity, availability, and accessibility for businesses, organizations, and institutions.

This database administrator program teaches students how to manage, design, and maintain databases, including tasks such as data modeling, installation, configuration, backup and recovery, performance tuning, and security management.

In this database administrator course, you will develop the technical expertise to design, implement, and manage complex database systems.

## Career Opportunities

- Data Administrator
- Database Analyst
- Data Warehouse Analyst
- Data Dictionary Administrator
- Technical Architect - Database

## Estimated Salary

Database Administrators in Canada typically earn in the range of \$52,000 to \$119,000 annually, according to the Canadian Job Bank.

On an hourly basis, database administrators earn from \$25.00 to \$61.03 per hour, depending on their experience and the province in which they work.

### Database Administration

Salary Range

**\$52,000 - \$119,000**



# Admission Requirements

**High school graduate or equivalent or mature student status (19 years or older before starting the program).**

**Meet one of the following English language Proficiency requirements:**

Minimum Grade 10 English plus a minimum of three years of full-time secondary education (Grades 8–12) completed in English in a country where English is one of the principal languages, or

Provide verified results for one of the English language proficiency tests listed below. Test results must be dated no more than two years before the program start date.

Overall minimum IELTS (Academic) score of 5.5, or

Overall minimum TOEFL score of 46 (only TOEFL iBT is accepted), or

Overall minimum CAEL score of 40, or

Minimum CELPIP score of listening 6, reading 5, writing 5, and speaking 6, or

Overall minimum Duolingo English Test (DET) score of 95.

**The Accuplacer assessment may be accepted only under the following conditions:**

English is the program's language of instruction, and the applicant is a mature, domestic student facing barriers, and the applicant cannot access their educational records or cannot provide sufficient evidence of secondary or post-secondary education.

The applicant provides a signed self-declaration.

The applicant provides attestation that they have completed at least three years of full-time instruction in English in a country where English is one of the principal languages.

Minimum overall reading 230 and writing 230, and WritePlacer: 4.





## Courses

### **Capstone Career Prep**

Students work with a professional career counselor to develop and optimize a professional resume to put forward for employers. Additional support in job searching and interview techniques is offered to ensure students maximize the value of their database admin certification.

### **Capstone Project**

Students will undertake a final project where they apply the knowledge acquired throughout the database administrator certification course to design and manage a system. The project involves database design, SQL programming, security implementation, and performance tuning.

### **Data Warehousing and Mining**

In this database administrator course online, students are introduced to the concepts and applications of data warehousing and mining. Various data mining techniques are examined, with a focus on solving real-world business problems through data analysis.

### **Database Security, Backup and Recovery**

This course introduces learners to the critical task of planning and implementing database protection strategies. Participants explore failure and recovery scenarios, which are essential components of high-quality database administrator programs.

### **Database Skills in Linux**

As a database administrator, students must know the operating system on which the database is installed. This database administrator online course covers essential Linux distributions like Red Hat and Oracle Enterprise Linux to ensure students can operate their systems without hassle.

## **Introduction to Database Administration**

This module focuses on providing an overview of administration concepts and the evolving role of the DBA. Students will explore core database architecture, types of models, and the fundamental role of a Database Management System (DBMS).

## **IT Project Management**

In this course, students focus on project management best practices applicable across the IT sector. Students will learn strategies to communicate progress to stakeholders and gain a basic understanding of tools used to keep technical projects on time and on budget.

## **Microsoft SQL Server Administration**

This course is designed to provide a comprehensive understanding of the core concepts and practical skills needed for effective Microsoft SQL Server administration. Students will learn to install, configure, and manage SQL Server instances, databases, and security. By the end of the course, participants will be prepared to manage and maintain SQL Server databases in a production environment, ensuring optimal performance, security, and data availability.

## **NoSQL Databases**

This course introduces students to NoSQL databases, a class of databases designed for handling large volumes of unstructured or semi-structured data. It covers the core concepts, architectures, and types of NoSQL databases. Students will learn how to design, implement, and manage NoSQL systems, focusing on their unique features, scalability, and flexibility compared to traditional relational databases.

## **Oracle Database Fundamentals**

This course is designed for students to master Oracle's powerful database platform and gain hands-on experience with database management and advanced features in Oracle 12c. Throughout the course, students will gain in-depth knowledge of Oracle Database 12c architecture, management tools, and features that make Oracle one of the most popular relational database systems in the world. This course is ideal for beginners looking to start a career in database administration, as well as intermediate learners who want to deepen their understanding of Oracle 12c.

### **Oracle database performance tuning**

This course provides a comprehensive exploration of Oracle Database performance tuning, equipping database administrators with the skills needed to optimize database performance and troubleshoot common issues. Students will learn how to assess, analyze, and improve the performance of Oracle databases across various environments. Throughout the course, participants will gain hands-on experience with Oracle's diagnostic and monitoring tools and develop a deep understanding of how to fine-tune database configurations and the use of Oracle's built-in performance tools.

### **Relational Database Design**

Students are introduced to relational database design concepts and industry standards. It starts with tools and processes for data modeling in Relational Database Management Systems (RDBMS). Topics include functional dependencies, normalization, database design methodologies, entity relationship modeling, and the use of UML as a diagramming notation.

### **SQL Programming**

This course is designed to provide a comprehensive introduction to SQL programming, offering both foundational and advanced skills for working with relational databases. Students will learn how to effectively interact with databases using SQL (Structured Query Language) to perform data retrieval, manipulation, and database management tasks. The course covers essential SQL concepts, including syntax and semantics, as well as practical application of Data Manipulation Language (DML) and Data Definition Language (DDL) operations.



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