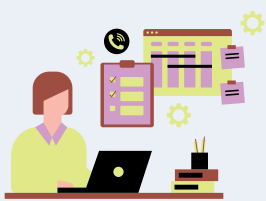# Occupational Profile

FOCAL Initiative

Database Analysts and Data Administrators

Database Analysts and Administrators are information technology roles which administer data management solutions. They develop and implement data administration policy, standards and models for data collection. Their role is becoming more prominent due to technological developments such as AI and digitization. In the automotive sector, budding technologies such as autopilot require extensive amounts of data, making the role of data analysts and administrators increasingly important.
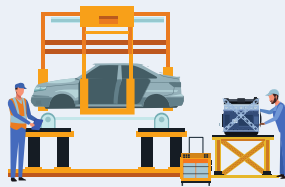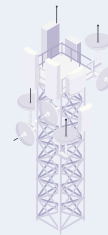
Where do Data Analysts and Administrators work?

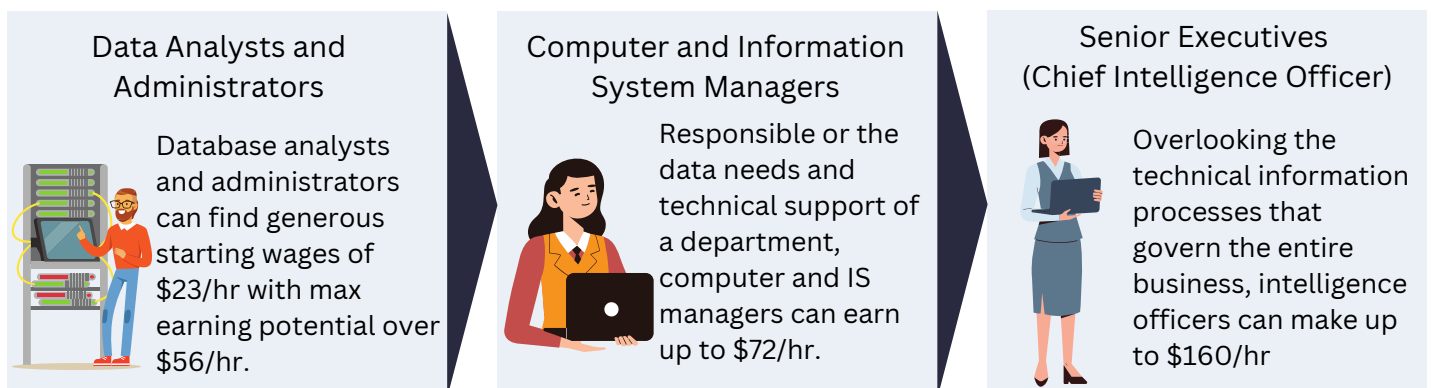| Government Administration	Insurance and Credit Intermediation	Automotive Technology Support	Telecommunication Services	Universities

What do Data Analysts and Administrators do?

Database Analysts and Data Administrators perform administrative work in the creation of policies, data usage and storage standards, as well as access rules and security. Technical work usually requires the use of programming languages to perform tasks such as data mining used for analytics and database maintenance and creation.

- Design, construct, modify, integrate, implement and test data models and database management systems
- Operate database management systems to analyze data and perform data mining analysis
- Conduct research and provide advice to other information systems professionals regarding the collection, availability, security and suitability of data
- Design and develop database architecture for information systems projects

Career pathways & potential earnings of Data Analysts and Administrators

Data analysts and administrators can progress into senior management and executive roles with adequate experience and knowledge:

Data Analysts and Administrators

Database analysts and administrators can find generous starting wages of $23/hr with max earning potential over $56/hr.

Computer and Information System Managers

Responsible or the data needs and technical support of a department, computer and IS managers can earn up to $72/hr.

Senior Executives (Chief Intelligence Officer)

Overlooking the technical information processes that govern the entire business, intelligence officers can make up to $160/hr

Occupational Profile

Database Analysts and Data Administrators can also apply their skills and expertise in other occupations such as the following:

- Information systems analysts and consultants
- Professional occupations in business management consulting
- Information systems testing technicians

How do I become a Database Analyst or Data Administrator?

There are several educational, licensing and training requirements to become a Database Analyst or Data Administrator. Some requirements may vary by province or company. Below are the most commonly required qualifications to work as a Data Analyst or Administrator:

- **Minimum Education:** Bachelor's degree or college diploma in computer science, computer engineering, or mathematics is usually required.
- **Certification and Licensing:** Certifications in individual program usage or programming languages are beneficial to finding employment as a database analyst or administrator.
- **Training and other requirements:** Experience in computer programming or related areas is usually required.

Education & Training

What are the most important skills to have as an Analyst or Administrator?

The ability to analyze and implement beneficial changes to data administration comes from a strong understanding of computers, networks and programming. Analysts and Administrators must also be effective at information dissemination, and ensuring policies and standards are understood by staff.

Technical Knowledge and Skills

- Computers and Electronics
- System Evaluation and Analysis
- Production and Processing
- Business Intelligence and Data Analysis Software
- Database Management System Software
- Computer Programming

Soft Skills

- Complex Problem Solving
- Problem Sensitivity
- Selective Attention
- Information Ordering
- Written and Oral Expression
- Instructing

Future of Data Analysts & Administrators in Canada

Jobs and Recruitment

As the need for data solutions grows due to increasing digitization of processes and internet of things (IoT), the job market for Database Analysts and Data Administrators in Canada will provide more opportunities. In 2021, more than 25,000 were employed across Canada's sectors and industries. According to FOCAL's occupational forecasts, there will be more than 50 job openings in Canada's automotive manufacturing sector over the upcoming decade for analysts and administrators, with all roles requiring new workers fill the recruitment gap in the sector.

Learn more about the job market for Database Analyst or Data Administrators, as well as about many other developments and new technologies in Canada's automotive manufacturing by visiting our website futureautolabourforce.ca.
You can also check our social media by following these links:

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