NOC 2172 — DATABASE ANALYSTS AND DATA ADMINISTRATORS

JOB DESCRIPTION

Database analysts design, develop and administer data management solutions using database management software. Data administrators develop and implement data administration policy, standards and models.

DUTIES

- **Database analysts perform some or all of the following duties:**
- Collect and document user requirements
- Design and develop database architecture for information systems projects
- Design, construct, modify, integrate, implement and test data models and database management systems
- Conduct research and provide advice to other informatics professionals regarding the selection, application and implementation of database management tools
- Operate database management systems to analyze data and perform data mining analysis.
- May lead, co-ordinate or supervise other workers in this group.
- **Data administrators perform some or all of the following duties:**
- Develop and implement data administration policy, standards and models
- Research and document data requirements, data collection and administration policy, data access rules and security
- Develop policies and procedures for network and/or Internet database access and usage and for the backup and recovery of data
- Conduct research and provide advice to other information systems professionals regarding the collection, availability, security and suitability of data
- Write scripts related to stored procedures and triggers
- May lead and co-ordinate teams of data administrators in the development and implementation of data policies, standards and models.

QUALIFICATIONS, ESSENTIAL SKILLS & EMPLOYMENT REQUIREMENTS

- A bachelor's degree, usually in computer science or in mathematics or completion of a college program in computer science is usually required.
- Computer programming experience is usually required.
- Employers usually require experience of 1-5 years
- Specific Skills: Operate database management systems to analyze data. Design, construct, modify, implement and test data models and database management systems. Design and develop database.
- Computer and Technology Knowledge: Windows and database software.
- Essential Skills: Oral communication, working with others, computer use, problem solving, job task planning and organizing, writing, reading text, document use, finding information, critical thinking, decision making, continuous learning and numeracy.

EDUCATIONAL PROGRAMS

- Computer Science- University of Toronto (Toronto, ON)
- Computer Programmer- Sheridan Institute of Technology and Advanced Learning (Oakville, ON)
- Network Specialist- triOS College Business Technology Healthcare (Mississauga, ON)

WAGES ($/hour)

- Median Wage: $26.25
- Wage Range: $19.23-$47.62

COMMON JOB TITLES

- technical architect - database
- database administrator (DBA)
- data custodian
- data dictionary administrator
- data warehouse analyst
- database architect

TYPICAL EMPLOYERS

- Information technology consulting firms
- Information technology units throughout public and private sectors