




DATABASE ADMINISTRATION AND MANAGEMENT

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The purpose of this training is to provide you with the right skills and knowledge needed to break into various job roles in Databases Management Administration. 1 Goal Analytics has collaborated with the industry to create a program that trains candidates specifically for roles such as Data Management Administrator and Data Analyst. We are committed in teaching relevant analytics techniques, tools, technologies, and hands-on applications through industry case.

PROGRAM FEATURES

The programme runs for a period of 3 months, 4 weeks for the training, then next is the Capstone Project phase. Candidates can request a mentor when they have a confirmed interview in Databases Administration and Management.



ON COMPLETING THIS PROGRAM, YOU WILL:

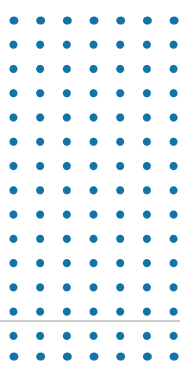
- » Be knowledgeable and well verse in analytics tools and technologies such as SQL - Relational and NoSQL, Azure Metadata, Cloud Databases, Power Bi, Big Data, Data Analytics.
- » Acquire skills in advance mathematics for statistical analysis and Predictive Modelling
- » Perform statistical Process and concepts for Data Analysis and visualisation
- » Be well verse in creating Data Science Models to solve real-world problems
- » Perform Data Cleaning and Data Transformation Operations using Power BI, other several tools and techniques.



YOU WILL ALSO DEVELOP THE FOLLOWING SOFT SKILLS:

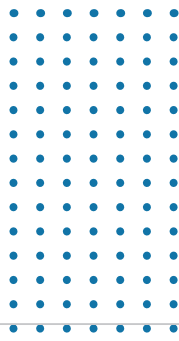
- » Communication and Data Storytelling to explain complex technical insights.
- » Adaptability in a field with continuous technological challenges.
- » Critical thinking and Problem-solving to draw insights and opportunities in data.





EXCEL COURSE OUTLINE

WEEK 1



INTRODUCTION TO DATA ANALYSIS

- Overview of Data Analysis
- Importance of Data Analysis
- Types of Data Analysis
- Tools for Data Analysis

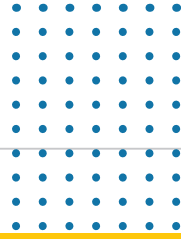
INTRODUCTION TO SPREADSHEET

- Microsoft Excel and the Interface
- Excel Cell, rows and columns
- Sorting and filtering
- Cell References

INTRODUCTION TO SPREADSHEET

- Count/ CountIF
- Sum / SumIF
- Average / AveragelF
- Max & Min / MaxiF & MinIF
- AutoSum

WEEK 2

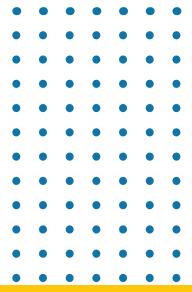


LOGICAL FUNCTION

- IF Statement
- IF Error
- OR & AND
- CountIFs
- SumIFs
- AverageIFs
- MaxiFs & MiniFs

LOOK UP FUNCTION

- VLOOKUP
- HLOOKUP
- INDEX AND MATCH
- XLOOKUP

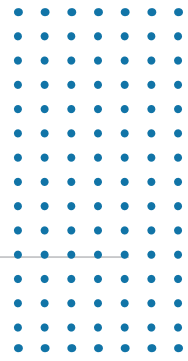


WEEK 3

PIVOT TABLE AND PIVOT CHART

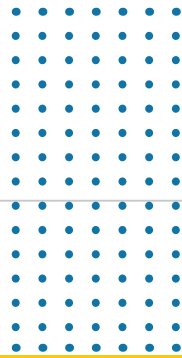
- Pivot Table
- Pivot Chart
- Build an interactive Dashboard





DATABASES AND DATABASE DESIGN

WEEK 4

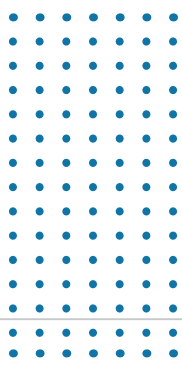


INTRODUCTION TO DATABASES

- What is database & types
- Database Management System
- Relational Database Model
- SQL Installation Process

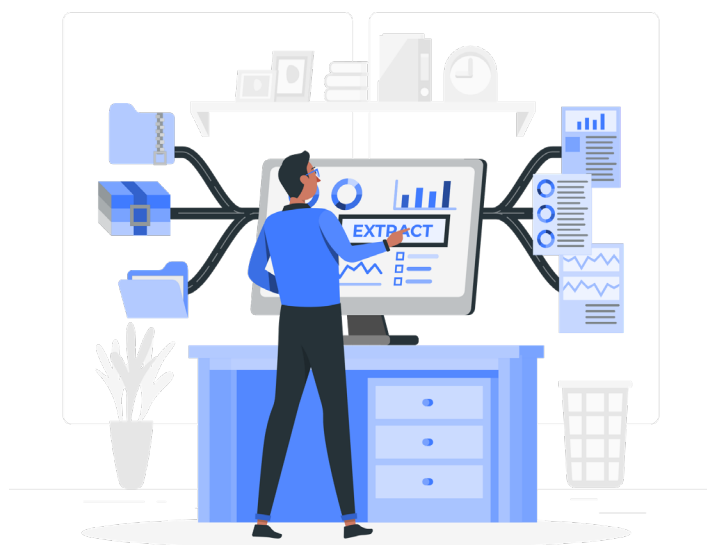


WEEK 5

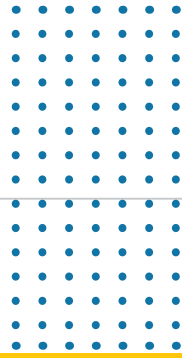


SQL AND DATABASE DESIGN

- SQL Basics (DQL)
- Filtering
- Ordering
- Alias
- Aggregation
- Group by
- Condition Statement



WEEK 6

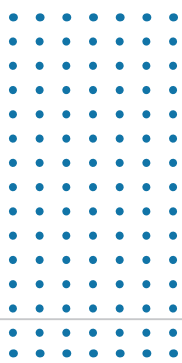


ADVANCE SQL AND DATABASE DESIGN

- JOINS
- Subqueries
- SET
- Windows Function

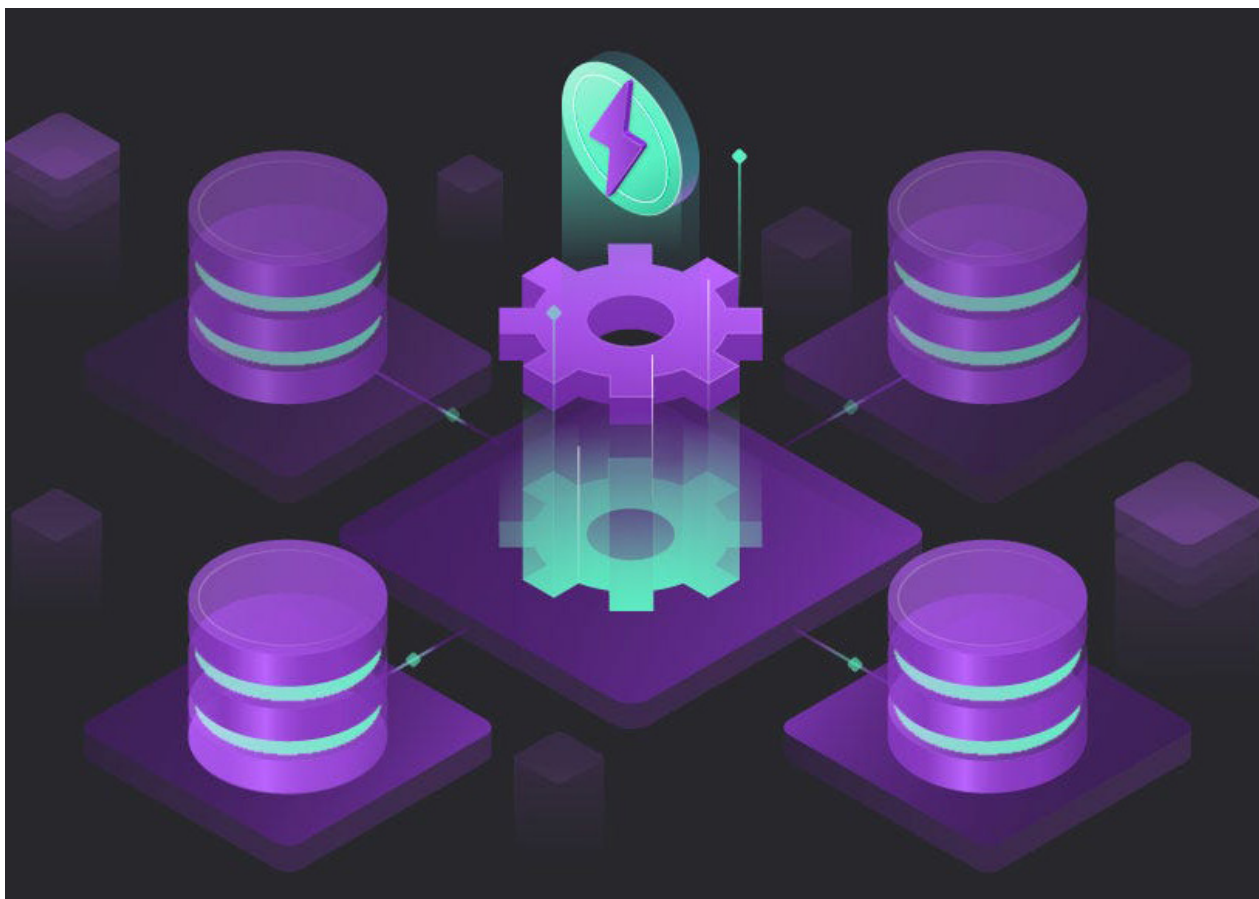


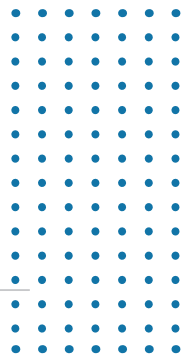
WEEK 7



DATABASE DESIGN

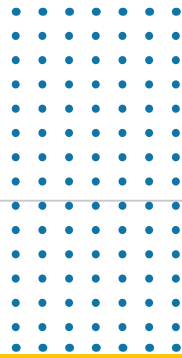
- Indexes and Performance Tuning
- Entity Relationship ER Modeling
- Data Modeling
- Normalization and Denormalization
- Data Integrity and CONSTRAINTS





DATABASE ADMINISTRATION

WEEK 8

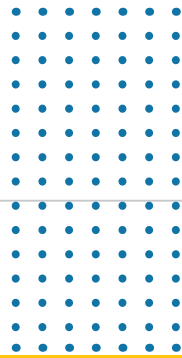


INTRODUCTION TO DATABASE ADMINISTRATION

- Roles and Responsibility of a DBA
- Database Lifecycle Management
- Backup and Recovery



WEEK 9

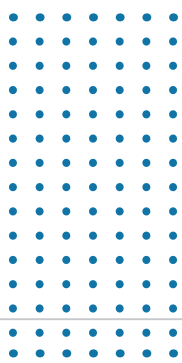


USER MANAGEMENT AND SECURITY

- User roles and permission
- Authentication and Authorization
- Database Configuration and Maintenance



WEEK 10

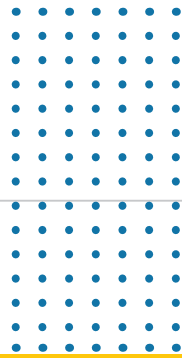


DATABASE SECURITY

- Security Practices
- Encryption and Data Protection



WEEK 11

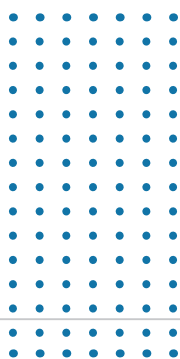


DATAWAREHOUSING AND ORCHESTRATION

- Introduction to snowflake
- Introduction to airbyte
- ETL, ELT and ELTL Processes
- Orchestration



WEEK 12



DATA GOVERNANCE

- Introduction to Data Governance
- Data Governance Frameworks
- Data Governance Policies and Standards
- Data Privacy and Compliance

PORTFOLIO PROJECT

DURATION: 1 MONTH

ROAD MAP



FAQ



1.

Are your Capstone Projects real?

All our capstone projects are real, innovative and within IT and Digital sectors

2.

What type of projects will I be working on?

You will be working on Data-Driven projects and will be using Power Bi to extract and Visualise Business Data, Reporting and Clean Data and Preprocessing. Carrying out Market and Competitive Analysis, and Customer Segmentation projects.

3.

Do I need certification to secure a job?

Certification will give you an edge; however practical experience is what is critical in securing a good job.

4.

I work full time, how flexible is your program?

We are highly flexible; trainings are done in evening and weekends. We will always work within your availability.

5.

Do you offer Certification?

We collaborate with professionally bodies and will recommend you to the best certification bodies.

HANDS-ON PROJECT/PORTFOLIO

HANDS-ON PROJECT/PORTFOLIO

- Project Planning - Project requirements and Guidelines, Team Formation and Project Planning
- Project development - Hands-on Development and Implementation
- Guidance and Troubleshooting
- Project Presentation and Review - project presentations, feedback and evaluation, course review.

MEET THE INSTRUCTORS



ATOYEBI AYODELE

DATABASE ADMINISTRATION & MANAGEMENT

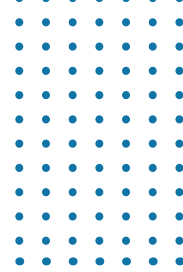
Ayodele is a certified Data Engineer with a diverse background in software engineering, health, finance, banking, and education technology. His expertise encompasses designing, managing, and optimizing databases, as well as analysing data to derive actionable insights. Ayodele has a great professional experience as a Data Analyst at Aptech and FCMB. He has a hands-on experience on tools such as SQL, Power BI, Python, Excel, Snowflake, Airflow and Airbyte and has always leverage these tools to support data-driven decision-making and streamline operational processes.

EXPERTISE AND SKILLS

Data Engineering: Database design, management and optimization. **Data Analytics:** Data visualization, reporting, and analysis using Power BI, SQL, and Excel. **Software Engineering:** Application development, coding, and debugging. **Healthcare Data:** Understanding of health-related data systems and analytics. **Finance & Banking:** Data analysis and management in financial and banking sectors. **Programming:** Proficient in Java and Python for data manipulation, analysis, artificial intelligence and automation. **Database Management:** Expertise in relational databases, query optimization, and data integrity.

CERTIFICATIONS

- Certified in Data Engineer,
- Certified Software Engineer,
- Certified Database Administrator,
- Certified SQL Server Developer



AYILARA MARANATHA
DATABASE ADMINISTRATION & MANAGEMENT

Ayilara is an experienced Software Engineer with a strong background in full-stack web development and data science. He is Proficient in a range of technologies including Python, JavaScript, React, TypeScript, and Django, with additional expertise in data analysis using libraries such as Pandas, NumPy, Power Bi, MySQL and Matplotlib. As a Data Science Instructor, he teaches foundational and advanced programming concepts, and data engineering, empowering students to apply these skills in real-world projects. Throughout his professional journey, Ayilara has the proven ability to collaborate effectively,

mentor junior developers, and apply best practices in software engineering and data science.

EXPERTISE AND SKILLS

- HTML, CSS, JavaScript, TypeScript, Python,
- Frameworks & Libraries: React, NextJs, Node.js, Django;
- APIs: RESTful APIs;
- Version Control: Git, GitHub;
- Databases: SQL (MySQL, PostgreSQL);
- Tool: Jupyter Notebook, Anaconda, Power Bi.

COMPANY OVERVIEW

At 1 Goal Analytics, we are committed in fostering your career goals into a reality. Our passion is to assist you unlock that disruptive thinking and acquire excellent skills needed for high-paying job and succeed.



OUR MISSION

Our mission is to be impactful through high-quality, well-innovative contents with hands-on practice and training that are internationally relevant in a dynamic tech-market

WHERE OUR STUDENTS WORK



OUR PARTNERS





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