Flair
TECHNOLOGIES

MICROSOFT POWER BI

Master Power BI to build interactive dashboards and reports.

Diverse Tech Topics

- SQL Fundamentals & Querying
- Data Loading & Transformation
- Data Modeling & Relationships
- DAX & Advanced Calculations
- Interactive Visualizations
- Integration of SQL & Power BI
- Publishing & Collaboration

ENROLL NOW

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PROGRAM HIGHLIGHTS

Flair TECHNOLOGIES

Comprehensive Curriculum

01

Covers SQL, data modeling, Power BI dashboards, DAX, and reporting for analysis.

Learning Notes for Each Session

02

Session-wise learning notes provide structured summaries of key concepts, tools, and techniques for efficient review and retention.

Advanced Concepts & Tools with Collaborative Environment

03

Gain expertise in advanced concepts via interactive, collaborative, and practical learning sessions

Hands-On Projects with Expert Instructors

04

Real-time projects with in-depth training on SQL, Power BI, DAX, modeling, and reporting using customized datasets.

Mock Interviews & Resume Preparation

05

We take mock interviews and provide you feedback which helps you how to prepare for real Interviews also we help you in resume preparation based on your skills and experience.

1:1 Meeting with our experts

06

You can have 1:1 meeting to discuss your career path and guidance on how to prepare your resume and job placements.

POWER BI ESSENTIALS & ENVIRONMENT SETUP

- What is Power BI - Overview of Desktop, Service, Mobile
- Installing Power BI Desktop & Initial Setup
- Understanding Power BI Components (Desktop, Service, Gateway)
- Power BI Licensing: Free, Pro, Premium, PPU

DATA LOADING AND TRANSFORMATION (POWER QUERY / M LANGUAGE)

- Connecting to Data Sources (flat files, RDBMS Databases, Semantic Models)
- Introduction to Power Query Editor
- Data Shaping & Cleaning (Remove, Filter, Replace, Split)
- Merge vs Append Queries
- Data Types and Formatting
- Understanding Query Folding
- Introduction to M Language (Functions & Custom Columns)

Power BI

DATA MODELLING AND RELATIONSHIPS

- Star vs Snowflake Schema
- Creating and Managing Relationships
- Fact Tables vs Dimension Tables
- Best Practices for Model Design (Normalization/Denormalization)
- Using Date Tables and Auto Date/Time

VISUALIZATIONS AND REPORT DESIGN

- Default & Common Visuals
- Slicers, Filters, Drill-downs, Tooltips
- Conditional Formatting & Interactions
- Bookmarks, Selections & Navigation
- Drillthrough Pages & Tooltip Pages
- Using Custom Visuals from AppSource
- Best Practices for Visual & UX Design

DAX (DATA ANALYSIS EXPRESSIONS)

- Calculated Columns vs Measures
- Aggregation & Math Functions
- Logical Functions
- Date & Time Intelligence Functions
- Text or String Functions
- Filter & Row Context
- Advanced DAX Functions
- DAX Performance Tuning

PUBLISHING, SHARING & COLLABORATION

- Publishing Reports to Power BI Service
- Workspaces, Apps & Access Control
- Scheduled & Incremental Data Refresh
- Row-Level Security (RLS) & Object-Level Security (OLS)
- Report Sharing, Subscriptions, Alerts
- Gateway Installation & Management

ADVANCED ANALYTICS & INTEGRATION

- Dataflows and Reusable ETL in Service
- Integration with Azure ML & Cognitive Services
- Power automate flows creation for datasets refresh
- Deployment Pipelines
- Intake & Survey Power apps Forms creation

DATA ANALYTICS - SQL OUTLINE

INTRODUCTION TO SQL

- Flat Files vs RDBMS (Why SQL over Excel/CSV)
- Introduction to Structured Query Language
- Importance of SQL in Data Analysis & BI
- Data Types (INT, VARCHAR, DATE, FLOAT, etc.)
- Tables, Attributes, and Records
- Installation & Configuration of SQL Server / PostgreSQL / MySQL

SQL COMMAND CATEGORIES

DDL - Data Definition Language

- Create, Alter, Drop, Truncate

DML - Data Manipulation Language

- Insert, Update, Delete, Merge

DQL – Data Query Language

- Select and its variations

TCL -Transaction Control Language

- Commit, Rollback, Savepoint

DCL – Data Control Language (Optional for Analysts)

- Grant, Revoke

CLAUSES, OPERATORS & FILTERS

- WHERE, GROUP BY, HAVING, ORDER BY, TOP / LIMIT
- Logical Operators: AND, OR, NOT
- Comparison Operators: =, <>, >, <, >=, <=
- Range Filters: BETWEEN, IN, IS NULL, LIKE
- Wildcards in LIKE: %, _
- DISTINCT, CASE, COALESCE, NULLIF
- Set Operators: UNION, UNION ALL, INTERSECT, EXCEPT

SQL CONSTRAINTS

- Primary Key
- Foreign Key
- Unique
- Not Null
- Default
- Check
- Composite Keys

SUBQUERIES

- Introduction to Subqueries
- Single-row and Multi-row Subqueries
- Correlated vs Non-Correlated Subqueries
- Scalar Subqueries in SELECT/WHERE

FUNCTIONS IN SQL

Aggregate Functions

- SUM(), AVG(), MIN(), MAX(), COUNT()

String Functions

- LEN(), UPPER(), LOWER(), LTRIM(), RTRIM(), SUBSTRING(), REPLACE(), CHARINDEX()

Date and Time Functions

- GETDATE(), DATEADD(), DATEDIFF(), YEAR(), MONTH(), DAY(), FORMAT()

Conversion Functions

- CAST(), CONVERT()

JOINS IN SQL

- Why Joins are Needed
- Inner Join
- Left Join
- Right Join
- Full Outer Join
- Cross Join
- Self Join
- Anti Join (NOT EXISTS, EXCEPT, LEFT JOIN WHERE NULL)
- Real-world Join Scenarios

WINDOW & ANALYTICAL FUNCTIONS

- OVER( ) Clause
- PARTITION BY, ORDER BY inside window
- ROW_NUMBER( )
- RANK( ), DENSE_RANK( )
- NTILE( )
- LEAD( ), LAG( )
- Running Totals, Moving Averages

DATA MODELING & BEST PRACTICES

- Star vs Snowflake Schema
- Fact and Dimension Tables
- Surrogate Keys and Natural Keys
- Normalization & Denormalization
- Naming Conventions and Standards

VIEWS AND INDEXES

Views

- Creating and Using Views
- Updatable vs Non-Updatable Views
- Materialized Views (if supported)

Indexes

- Clustered vs Non-Clustered
- Composite Index
- When and Why to Use Indexes
- Index Impact on Performance

STORED PROCEDURES AND TRIGGERS

Stored Procedures

- CREATE, EXEC, Parameters
- Use in Data Pipelines / Reporting
- Pros and Best Practices

Triggers

- After INSERT/UPDATE/DELETE
- Use Cases in Auditing or Data Validations

SQL

COMMON TABLE EXPRESSIONS (CTES)

- Syntax and Structure
- Recursive CTEs
- CTE vs Subquery Performance
- Multi-CTE with Joins and Aggregations

ADVANCED & ANALYTICAL USE CASES

- Using SQL for KPI Analysis
- Cohort Analysis
- Funnel Analysis
- Customer Segmentation Queries
- Market Basket Analysis (via Joins/Subqueries)
- Error Handling using TRY...CATCH (SQL Server)

REAL-WORLD REPORTING & ANALYSIS TASKS

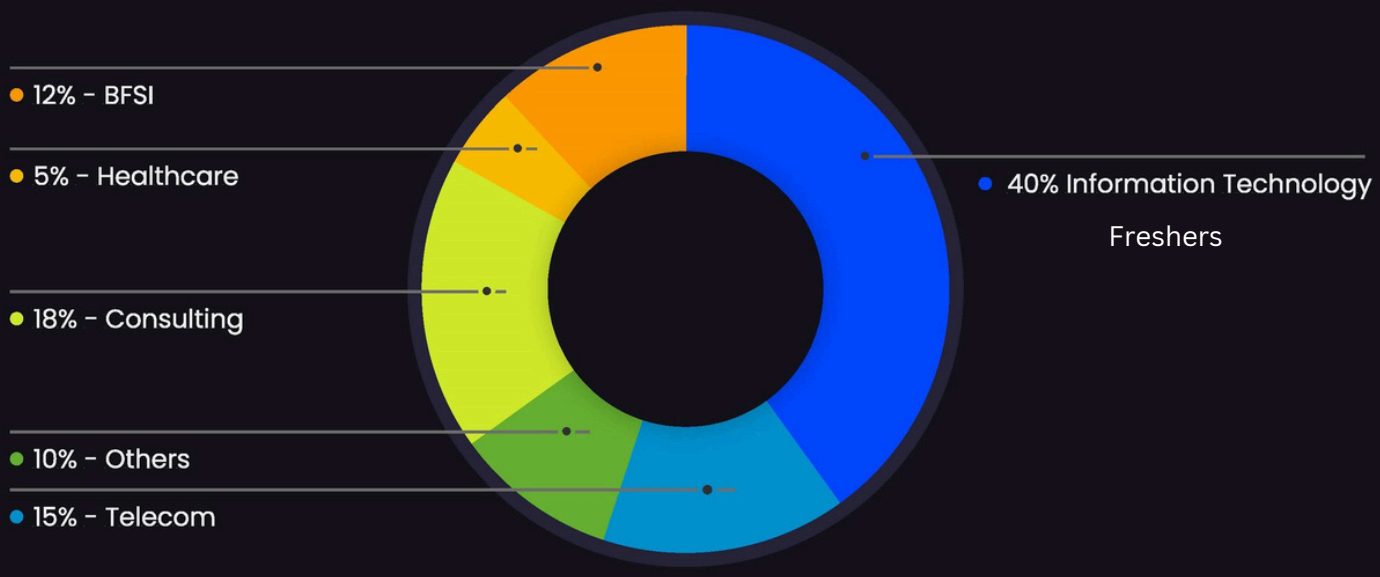
- Monthly, Quarterly, Yearly Trends
- YoY, MoM Growth Analysis
- Top N/Bottom N Products or Regions
- Contribution % Analysis (Subtotals)
- Data Cleansing with SQL
- SQL for Power BI/Tableau Backends

Flair TECHNOLOGIES

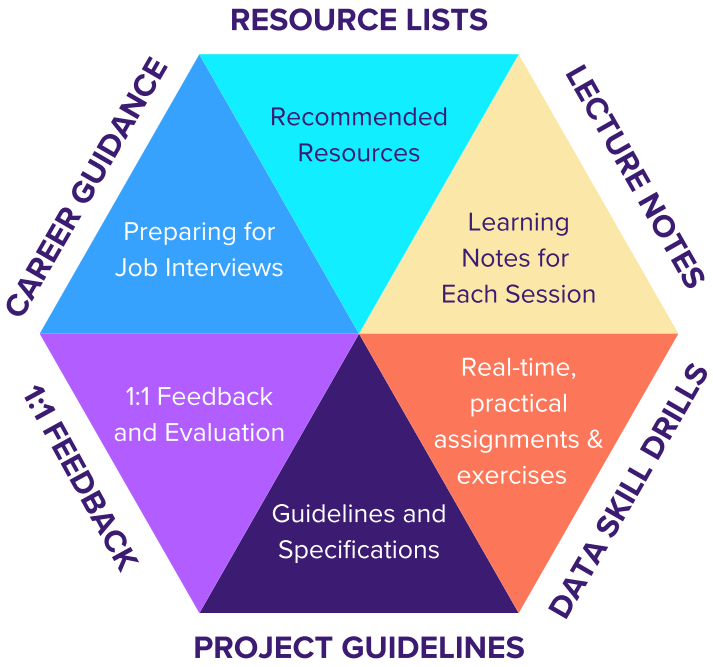
Meet the Batch

Flair TECHNOLOGIES

Industries Our Learners Come From



WHAT YOU ACHIVE



TARGET GOALS

1. Resource Lists
2. Lecture Notes
3. Hands-on Exercises
4. Project Guidelines
5. 1:1 Feedback
6. Career Guidance

We are pioneers in providing trainings by certified Instructors who are highly qualified with decades of experience in the subject matter. Flair Technologies was expertise in providing quality Industry Oriented Training with Interview Preparation and Placement Assistance.

GOALS ACHIVED

1. Expertise in Power BI
2. Ready for Interview
3. Placement in MNC

FLAIR TECHNOLOGIES

FLALR TECHNOLOGIES was founded in 2014 With the mission to provide high quality software Trainings. Despite facing challenges due to full-time commitments, our enthusiasm for teaching never waned.

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Call Us Now

Our Location
Bengaluru, India