



# Power BI+SQL Course



FRONTLINES EDUTECH PRIVATE LIMITED



# ABOUT US

Frontlines Edutech Private Limited envisions bridging the gap between academia and industry. We understand the pain of unemployment and are trying to wipe off the words of impossible and unemployment from the brains of youth by training and turning them into diamonds. We provide tailor-made, hands-on, and need-based programs on par with industry standards. We believe that the youth of today is the future of tomorrow. And so our courses are tutored by experts from top industries who are passionate about mentoring the youth. Since its inception, Frontlines Edutech has earned the trust and gained recognition from thousands of learners across the state.



**FOCUSED ON REFINING TALENT AND TURNING LEARNERS INTO HIGHLY SKILLED PROFESSIONALS SOUGHT AFTER BY TOP COMPANIES.**



# OUR MISSION AND VISION

At Frontlines Edutech Private Limited, our mission is to bridge the gap between academia and industry by offering practical, customized training programs that equip youth with the skills needed for easy employment. We aim to eliminate unemployment by fostering a mindset of possibility and transforming learners into skilled professionals. With expert industry mentorship, we empower the next generation with the tools to succeed in today's competitive world.

It is in our vision that each young person be prepared with the skill, confidence, and opportunity to succeed in their career. We want to lead an online skills development platform that provides focus on determining the needs of industries through education, so that it would be well-prepared in nurturing professionals who will shape the future of employment. Innovative training eliminates unemployment and helps in unlocking the potential of thousands of learners.





# WHY CHOOSE US

We are Success Trainers, Mentors, and Motivators, passionate about helping you reach your full potential with a blend of warmth, wisdom, positivity, and proactivity. Our goal is always your highest good and greatest growth, offering support that is both caring and daring, fun and focused. We ensure learning is not only powerful but also enjoyable, making every step of your growth journey meaningful and engaging.





# WHY LEARN THIS COURSE

- This course is for those who want to start their coding journey, whether a beginner or an expert.
- This course covers basics to advanced concepts straightforwardly and systematically.
- We take special care of Non-IT students
- Easy to learn
- Beginner Friendly
- The diversity of our learners adds richness to course discussions and interactions.





# DELIVERABLES

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  - 1. FROM SCRATCH TO MASTER LEVEL TRAINING
  - 2. RESUME BUILDING
  - 3. DAILY ASSIGNMENTS
  - 4. LINKEDIN PROFILE BUILDING
  - 5. INTERVIEW GUIDANCE
  - 6. COURSE COMPLETION CERTIFICATE
  - 7. Q&A SESSIONS
  - 8. PLACEMENT UPDATES
  - 9. ON-DEMAND VIDEO COURSE CONTENT
  - 10. DOWNLOADABLE RESOURCES



# TOP COMPANIES HIRING

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Infosys

tcs TATA  
CONSULTANCY  
SERVICES

accenture

cognizant

Capgemini

wipro

IBM

BOX8

KPMG



## TOP CITIES FOR POWERBI DEMAND

- BANGALORE (BENGALURU)
- GURGAON (GURUGRAM)
- HYDERABAD
- PUNE
- MUMBAI
- CHENNAI
- NOIDA

## KEY SECTORS DRIVING DEMAND FOR POWERBI

- TECHNOLOGY AND SOFTWARE DEVELOPMENT
- DATA SCIENCE AND ANALYTICS
- ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
- MEDIA AND ENTERTAINMENT
- STARTUPS AND TECH INCUBATORS



# POWERBI SYLLABUS

## SQL COURSE CONTENT

### MODULE 1. INTRODUCTION TO DATAWAREHOUSE AND DATABASE

- Introduction to relational databases
- Fundamental concepts of Datawarehouse, OLTP and OLAP.
- Several operators (such as logical and relational), constraints, primary and foreign key

### MODULE 2. INTRODUCTION TO SQL

- Installation of SSMS (SQL Server Management Studio)
- What is SQL?
- Overview of SQL (Structured Query Language)
- DDL and DML Commands
- Create Database using Management Studio
- Datatypes in SQL Server

### MODULE 3. DDL AND DML STATEMENTS

- Create, Alter, and Drop Table
- Insert, Update, and Delete Statements
- Truncate Statement
- Basic SQL Syntax
- Queries (SELECT, WHERE)
- Filtering and Sorting Data (ORDER BY, LIMIT)

- Data Selection
- SELECT Statements
- DISTINCT keyword
- Filtering Data
- WHERE Clause (Comparison Operators, Logical Operators)
- BETWEEN, IN, and LIKE operators
- Sorting and Limiting
- ORDER BY, LIMIT, OFFSET

### MODULE 4. AGGREGATE FUNCTIONS

- Count, Sum, Min, Max, Avg, Group By, and Having Clause
- Aggregate Functions
- COUNT(), SUM(), AVG(), MIN(), MAX()
- String Functions
- CONCAT(), SUBSTRING(), REPLACE(), LENGTH()

### MODULE 5. JOINS AND SET OPERATIONS

- Introduction to Joins
- INNER JOIN, LEFT JOIN, RIGHT JOIN, FULL JOIN

### MODULE 6. ADVANCE CONCEPTS

- Common Table Expression (CTE)
- Subqueries
- Row\_Number(), Rank(), Dense Rank()



# POWERBI COURSE CONTENT

## MODULE 1. INTRODUCTION TO POWER BI

- Overview of Power BI
- Power BI licensing
- Introduction to Power BI terminology
- Power BI tools and building blocks

## MODULE 2. POWER BI DESKTOP AND POWER QUERY EDITOR

- Power BI desktop overview
- Getting data from various sources
- Data connectivity modes
- Power Query editor overview
- Data types in Power BI
- Data transformation in Power Query editor
- Model optimization in Query Editor

## MODULE 3. MODELLING IN POWER BI

- Overview of modelling and schemas
- Modelling data in Power BI
- Data cardinality types
- Cross filtering and connection type (Active/Inactive)

## MODULE 4. DAX (DATA ANALYSIS EXPRESSIONS)

- Introduction to DAX
- Calculated columns, measures, and quick measures

- Aggregation, Date & Time, Filter, Logical, and Information Functions
- Filter context in calculation
- Operators in DAX
- DAX performance

## MODULE 5. VISUALIZATION IN POWER BI

- Introduction to visualization
- Usage of visuals
- AI and custom visuals overview
- Visual formatting and analytical features
- Managing and arranging the visuals
- Grouping, selection pane, bookmarks, buttons
- Tooltip, drill down, and drill through functionality

## MODULE 6. POWER BI DASHBOARDS

- Introduction to dashboards
- Dashboards vs reports
- Creating dashboards

## MODULE 7. POWER BI SERVICES

- Introduction to workspace
- Introduction to app
- Publishing datasets or reports in Power BI
- Sharing workspace and app
- Refreshing a dataset
- Exporting data from visuals
- Exporting report as PPT or PDF
- Analyzing report in Excel



## MODULE 8. OTHER IMPORTANT FUNCTIONALITY

- Bookmarks in Power BI
- RLS (row level security)
- Gateway
- Slicer, filters, and advanced filters





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Building Trust & Careers

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