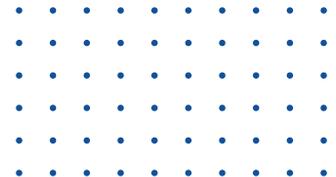


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# HEALTH DATA INTELLIGENCE USING SQL, ADVANCE EXCEL AND POWER BI

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Date: 4-8 May,2026



# About the course

Healthcare is undergoing a major data-driven transformation. Health data intelligence plays a crucial role in converting vast and complex information—such as clinical notes, laboratory reports, and medical imaging—into actionable insights. These insights enable better patient satisfaction and care, improved operational efficiency through data-driven decision-making, personalized treatment plans, optimized staffing, cost reduction, and prediction of healthcare trends for proactive management and resource planning.

This course provides foundational to advanced knowledge of database systems, including database design, querying, and programming. It is structured into three major components. The first component focuses on database design and SQL-based querying. The second component introduces Power BI for data visualization, real-time dashboard monitoring, and resource management. The final component covers advanced Excel techniques for multidimensional reporting and ad-hoc data analysis.

## Learning Objectives

- To equip individuals with the skills to effectively analyze, visualize, and manage data for business intelligence and driving informed decision-making within organizations.
- To connect data and visualize with Power BI to various data sources (databases, file level data, cloud data) and use Power Query Editor for data cleaning, shaping, and transformation.
- To Uncover the Advantages of BI Solutions over traditional Excel Reporting and discover Excel Alternatives in BI.
- To leverages Business Intelligence (BI) tools like MySQL for data storage, Excel for ad-hoc analysis and data manipulation, and Power BI for advanced visualization and dashboard creation to provide data-driven insights.



# Benefits/ Outcome of the program

- Learn the process of examining, cleaning, transforming, and modeling data to uncover insights.
- Learn including database concepts, tables, and data types, data manipulation techniques (modification), statistical analysis, and visualization techniques.
- Develop skills in creating data models, establishing relationships between tables, and optimizing data for performance within Power BI.
- Able to implement techniques to write efficient SQL queries for better data retrieval performance, which directly impacts Power BI's data loading and refresh times.
- Understand how to publish, share, and collaborate on reports and dashboards using Power BI Service and implement security measures like Row-Level Security (RLS)

## Course Outline/Content

- Course Introduction
- Advanced Formulas and Functions using Excel
- Data analysis using MySQL
- Data Analysis and visualization using Excel
- Data Analysis and visualization using Power BI
- Data Modeling and Relationships in Power BI
- Visualizations and Interactivity
- Real-Time Dashboards
- Project on HMIS

## Target Audience

Health working Professionals from Operations, Quality, Sales & Marketing, Information Technology, Finance domain.

## Participation fee:

₹25,000 INR per participant (Excluding GST)

## Discount:

- IIHMR Alumni Discount – 10%
- Group Discount on Registration of 3 or more candidates– 20%

## Resource Persons

**Dr. Nishikant Bele, Associate professor, IIHMR Delhi**



Dr. Nishikant Bele is an Associate Professor in the area of Information System. He has received his MCA from Amravati University Amravati, Maharashtra and Doctorate in Computer Science from Utkal University, Bhubaneswar, Orissa. Dr. Nishikant has over 25 years of experience in teaching, training, administration and research with prominent organizations. He is a SAP certified ERP Solution consultant.

He has published research papers in various journals of international repute and has attended and presented papers in many international and national conferences. Dr. Nishikant Bele has conducted MDP for Uttar Pradesh Police on Computer Competency. His areas of interest are: Business Intelligence, ERP, Data Modeling & Database Designing, Data Analysis through MS-Excel, Web and Text Mining.



## Dr. Sukesh Bhardwaj, Assistant Professor, IIHMR Delhi



Dr. Sukesh Bhardwaj is an Assistant Professor in the domain area of Information Technology and has more than 11+ years of work experience in Information technology domain. By qualification, he is a Doctorate in Cloud Computing, MCA, CCNA. He has worked at IIHMR Delhi as a Senior System Analyst-IT Deptt. Head more than 7 years.

He is also engaged in Academic Teaching and other training within the organization He also worked as an IT Coordinator in National Family Health Survey large scale survey (NFHS-6, 5, 4) Rajasthan West, Odisha State, Chhattisgarh State sponsored by Ministry of Health and Family Welfare (MoHFW). He has an extensive experience in Technical Trainings, SOP Development.

He has expertise in Systems Planning & Designing, Integration and development in several types of ERPs for Real Estate, FinTech and Edtech products, CRM's, Payroll and Biometric Systems.

## Tools & Techniques

- Microsoft Excel
- Microsoft Power BI Desktop
- MySQL

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# LET'S WORK TOGETHER

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## CONTACT US-

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