



# SERTIFIKAT PROFISIENSI PENGETAHUAN

diberikan kepada

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dengan predikat

**EXPERT**

dalam ujian di bidang

## Database Systems

yang diselenggarakan oleh

**IKATAN AHLI INFORMATIKA INDONESIA**

21 January 2023

**Hariyono Kasiman**

KETUA UMUM IAII

**PREINEXUS™**  
SHARING • COLLABORATION • NETWORK

**POKOK BAHASAN**  
YANG DIUJIKAN

## **Database Systems**

Introduction to Database System  
Introduction to The Relational Model  
Introduction to SQL  
Intermediate SQL  
Advanced SQL  
Formal Relational Query Languages  
Database Design & The E-R Model  
Relational Database Design  
Application Design & Development  
Storage & File Structure  
Indexing & Hashing  
Query Processing  
Query Optimization  
Transactions  
Concurrency Control  
Recovery System  
Database System Architectures  
Parallel Databases  
Distributed Databases  
Data Warehousing & Mining  
Information Retrieval  
Object Based Databases  
XML  
Advanced Application Development  
Spatial & Temporal Data & Mobility  
Advanced Transaction Processing