



ORACLE®

**PRO** Professional Academy

# SERTIFIKAT PELATIHAN

PROA/2022/2511/152251172101-60

Diberikan kepada

**Putut Pamilih Widagdo**

telah menyelesaikan pelatihan

Database Design & Programming with SQL for Trainer  
pada Program Professional Academy  
Digital Talent Scholarship 2022

pada tanggal 09 Mei 2022 - 20 Mei 2022 selama 48 Jam Pelatihan

Jakarta, 27 Jul 2022



Ditandatangani secara elektronik oleh:  
KEPALA BADAN PENELITIAN DAN  
PENGEMBANGAN SUMBER DAYA  
MANUSIA

HARY BUDIARTO

## Professional Academy Digital Talent Scholarship 2022

Pelatihan Database Design & Programming with SQL for Trainer sejumlah 48 jam pelatihan

1. Introduction
2. Entities and Attributes
3. Relationship Basics
4. Super/Sub Types and Business Rules
5. Relationship Fundamentals
6. UIDs and Normalization
7. Arcs, Hierarchies, and Recursive Modeling
8. Hierarchies, and Recursive Modeling
9. Changes and Historical Modeling
10. Mapping
11. Creating Database Projects
12. Presenting Database Projects
13. Database Programming with SQL- Introduction
14. SELECT and WHERE
15. WHERE, ORDER BY, and Intro to Functions
16. Single Row Functions Part I
17. Single Row Functions Part II
18. JOINS Part I
19. JOINS Part II
20. Group Functions Part I
21. Group Functions Part II
22. Subqueries
23. Ensuring Quality Queries Part I
24. DML
25. DDL
26. Constraints
27. Views
28. Sequences and Synonyms
29. Privileges and Regular Expressions
30. TCL
31. Final Project and Exam Review
32. Ensuring Quality Queries Part II