

# SERTIFIKAT PELATIHAN

01123574131-51/DTS/BLSDM.KOMINFO/10/2021

Badan Penelitian dan Pengembangan Sumber Daya Manusia  
Kementerian Komunikasi dan Informatika Republik Indonesia,  
menyatakan bahwa :

**Aryo Aditya**

Telah Mengikuti Pelatihan **Database Design & Programming with SQL**  
Program Fresh Graduate Academy Digital Talent Scholarship  
Sebagai Peserta mulai tanggal 19 Juli – 17 September 2021  
yang meliputi 180 Jam Pelatihan

Jakarta, 01 Oktober 2021

Kepala Badan Penelitian dan Pengembangan Sumber Daya Manusia Kementerian  
Komunikasi dan Informatika



Dr. Hary Budiarto, M.Kom.



## Fresh Graduate Academy Digital Talent Scholarship 2021 Database Design & Programming with SQL sejumlah 180 JP

### **Module Database Design :**

**Module 1 – Entities and Attributes**

**Module 2 – Relationship Basics**

**Module 3 – Super/Sub Types and Business Rules**

**Module 4 – Relationship Fundamentals**

**Module 5 – UIDs and Normalization**

**Module 6 – Arcs, Hierarchies, and Recursive Modeling**

**Module 7 – Changes and Historical Modeling**

**Module 8 – Mapping**

**Module 9 – Creating Database Projects**

**Module 10 – Presenting Database Projects**

### **Module Programming with SQL :**

**Module 1 – Select and Where**

**Module 2 – Where, Order By, and Intro to Functions**

**Module 3 – Single Row Functions Part I**

**Module 4 & Module 5 – JOINS Part I & Part II**

**Module 6 & Module 7 – Group Functions Part I & Part II**

**Module 8 – Subqueries**

**Module 9 – Ensuring Quality Queries Part I**

**Module 10 – DML**

**Module 11 – DDL**

**Module 12 – Constraints**

**Module 13 – Views**

**Module 14 – Sequences and Synonyms**

**Module 15 – Privileges and Regular Expressions**

**Module 16 – TCL**

**Module 17 – Ensuring Quality Queries Part II**

