Database System (CS-103)

Introduction to the lab, software installation, and creating simple database

Mr. Hamza Javed,
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Muslim Youth University, Islamabad, Pakistan

Google Classroom

Code: sstvwf6

Link: https://classroom.google.com/c/NjU1ODEyMzcxODMz?cjc=sstvwf6

About me

- Education:

  MSCS from NUCES-Islamabad Pakistan in 2023

- Experience (Industry+ Academia = 3 Year)

  - Serving as a Lecturer from March 29, 2023 – present at MY university
  - Teacher Assistant at FAST-NUCES Islamabad from August 2022 – January 2023
  - Web Developer at Cognizant Innovation from October 2017 – August 2019

- Publications

  - H. Javed *et al.*, "Blockchain-Based Logging to Defeat Malicious Insiders: The Case of Remote Health Monitoring Systems," in *IEEE Access*, vol. 12, pp. 12062-12079, 2024, doi: 10.1109/ACCESS.2023.3346432.
  - ”iAFP-ET: A robust approach for accurate identification of antifungal peptides using extra tree classifier and multi-view fusion.”
  - iEnhancer-DNN: An Accurate identification of enhancer sites by heterogeneous feature using Deep Neural Network

- Research Area

  1. Blockchain
  2. Data Science/Data analytics
  3. Data visualization

Class Introduction

i. Name
ii. Why Computing
iii. Area of Interest

Tentative Grading Policy

Quizzes…….. **05%**

Lab Projects…… …….. **40%**

Mid term…… **20%**

Final Exam…… **35%**

Attendance Policy

75% attendance is must; deficient students will not be allowed to appear in the final examination.

Class Policies and Guidelines

Don’ts

– Use of cell phones
– Discussion with fellows during class
– Early leave
– Frequent movement In-out of class

Do’s

– Be interactive
– Participate in the lecture
– Relax and learn

Cheating and Plagiarism

Zero tolerance

If found guilty will be panelized.

- Zero in all quizzes and projects
- Case will be sent to disciplinary committee

Plagiarism

- Copying all or part of the assignment or code from classmate
- Coping all or part of the assignment or code from internet and book without rephrasing

Agenda

1. Language & Tool
2. MySQL Downloading Steps
3. MySQL workbench Installation
4. Creating Scheme in MySQL workbench
5. Microsoft Access Overview
6. Creating Database in Microsoft Access
7. Creating table, Form, Report
8. Creating Front end and inserting data

Language & Tool

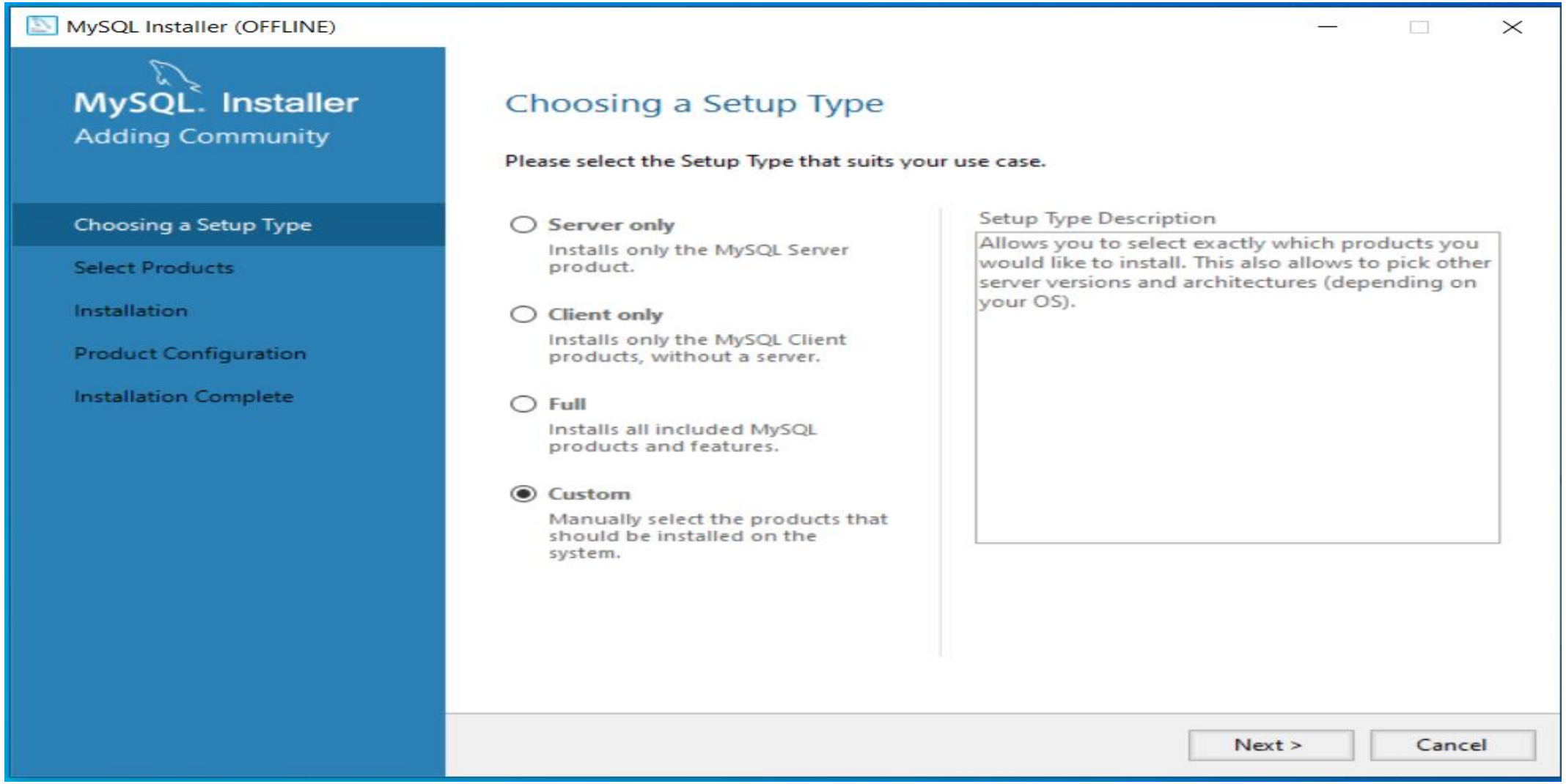
- Programming Language : SQL
- Tools : There are a number of software that can work with the SQL, such as:
  i. MySQL Workbench
  ii. Microsoft SQL server
  iii. SQLite
  iv. XAMP
  v. WAMP
- It's up to you to decide but recommend to use **MySQL Workbench**

MySQL Workbench Downloading Steps

Download link: https://dev.mysql.com/downloads/installer/

Video link: https://classroom.google.com/c/NjU1ODEyMzcxODMz/m/NjY3ODgxMTc1NzQ3/details

MySQL Workbench Installation



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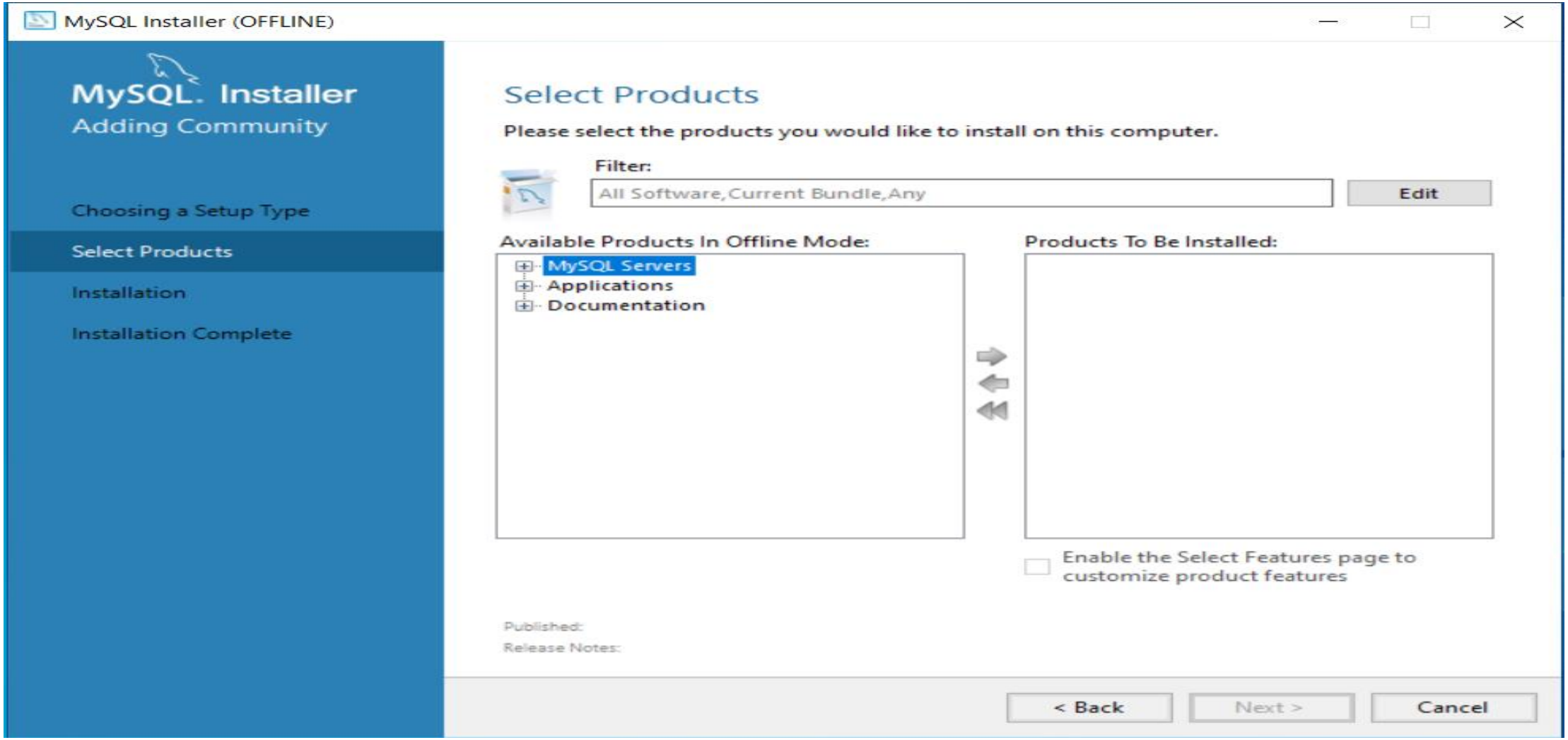

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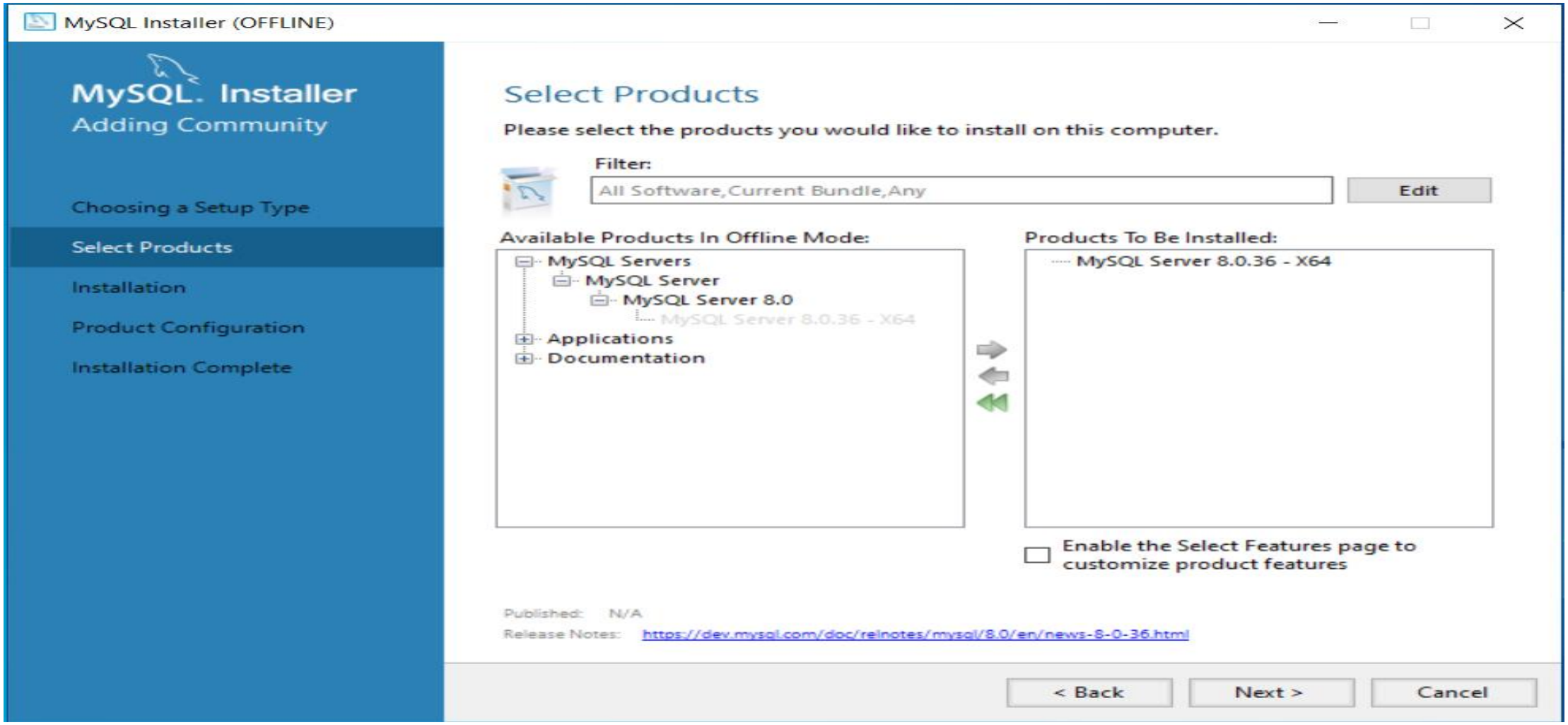

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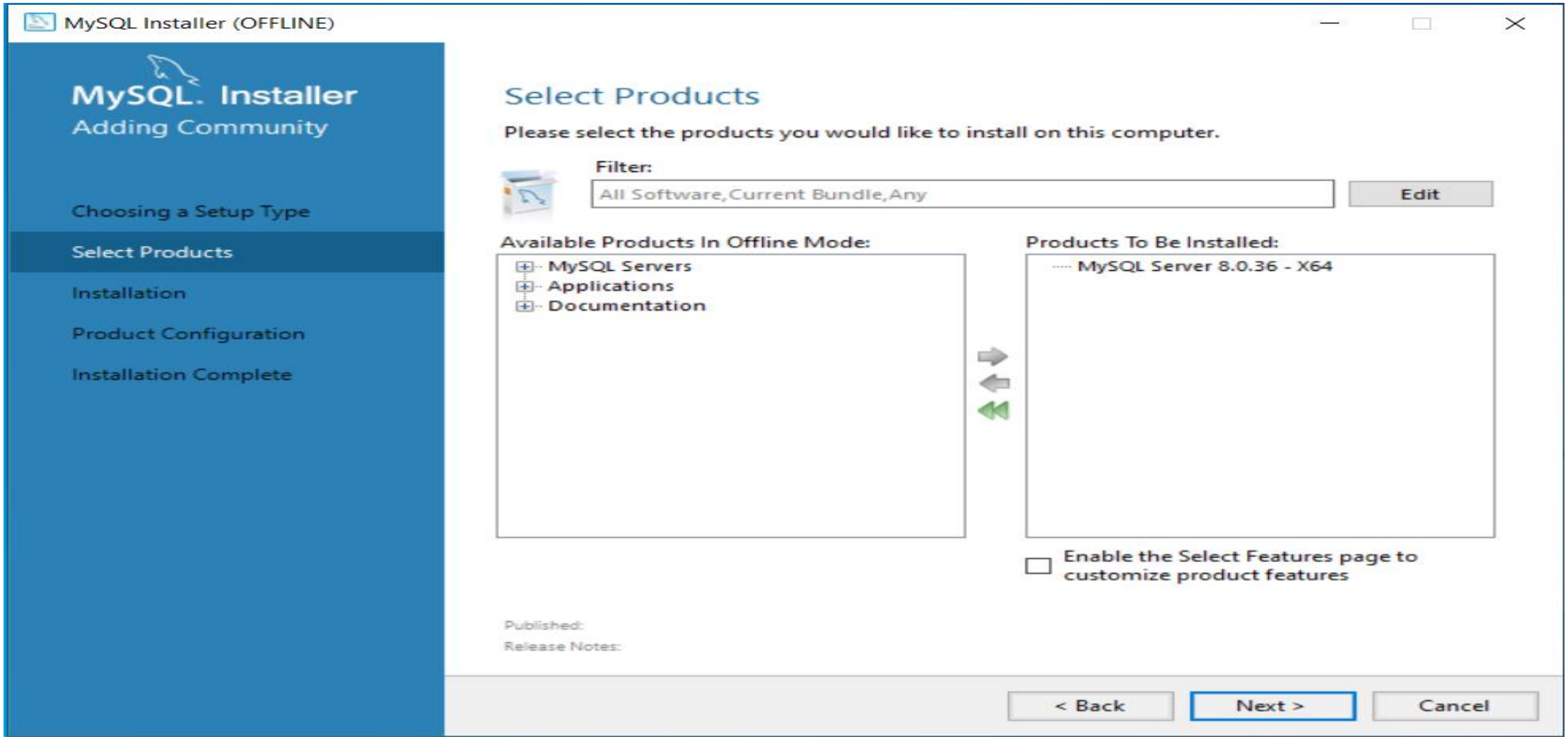

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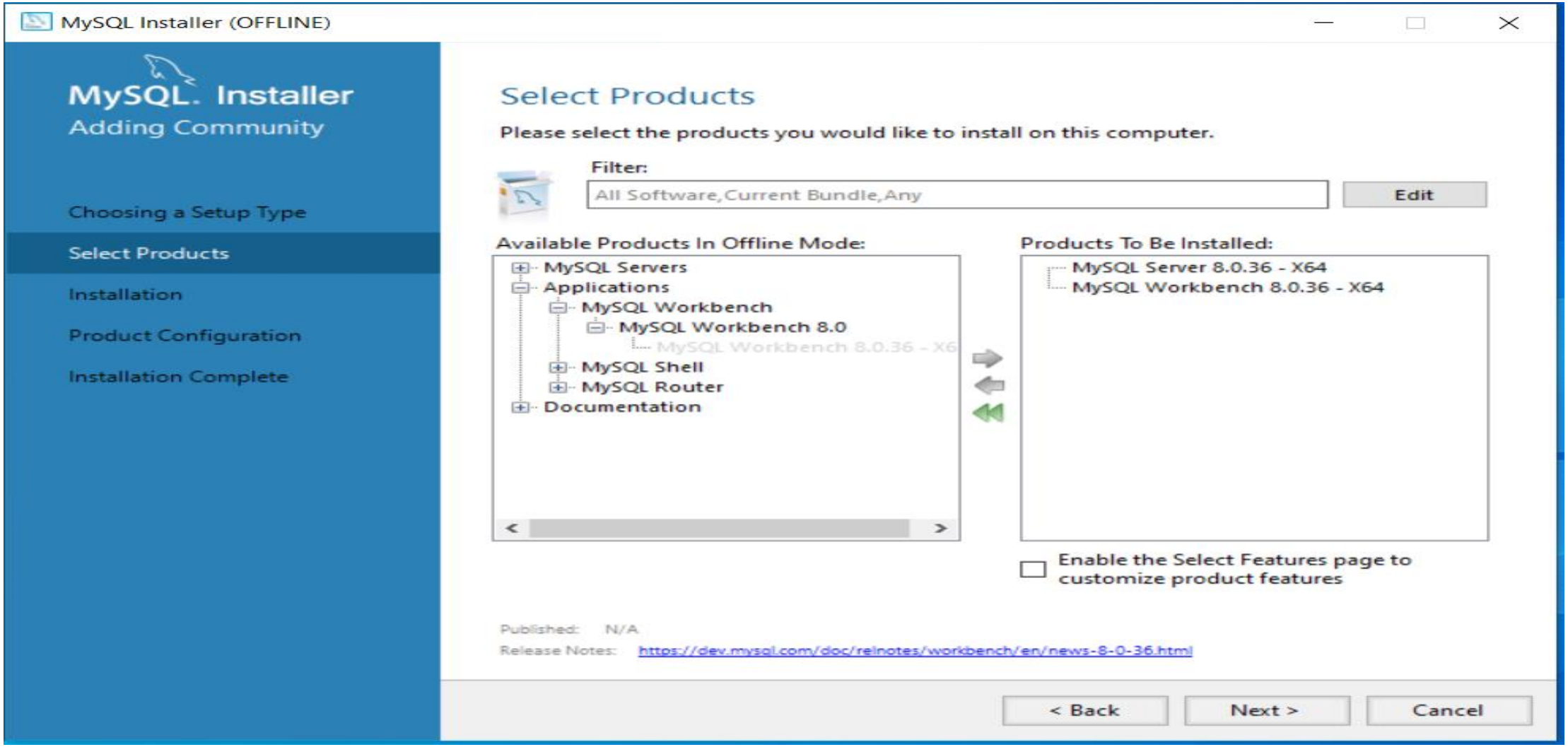

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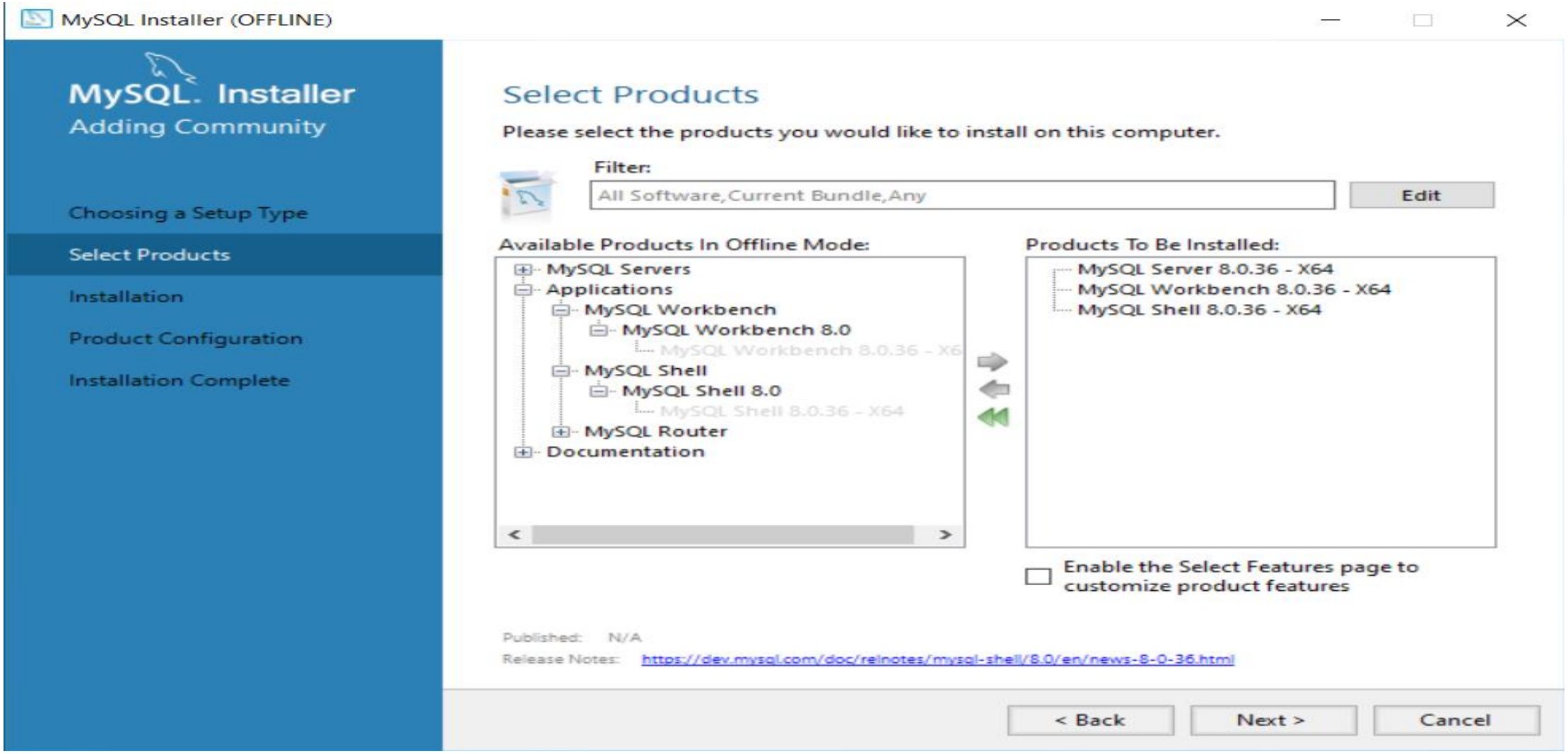

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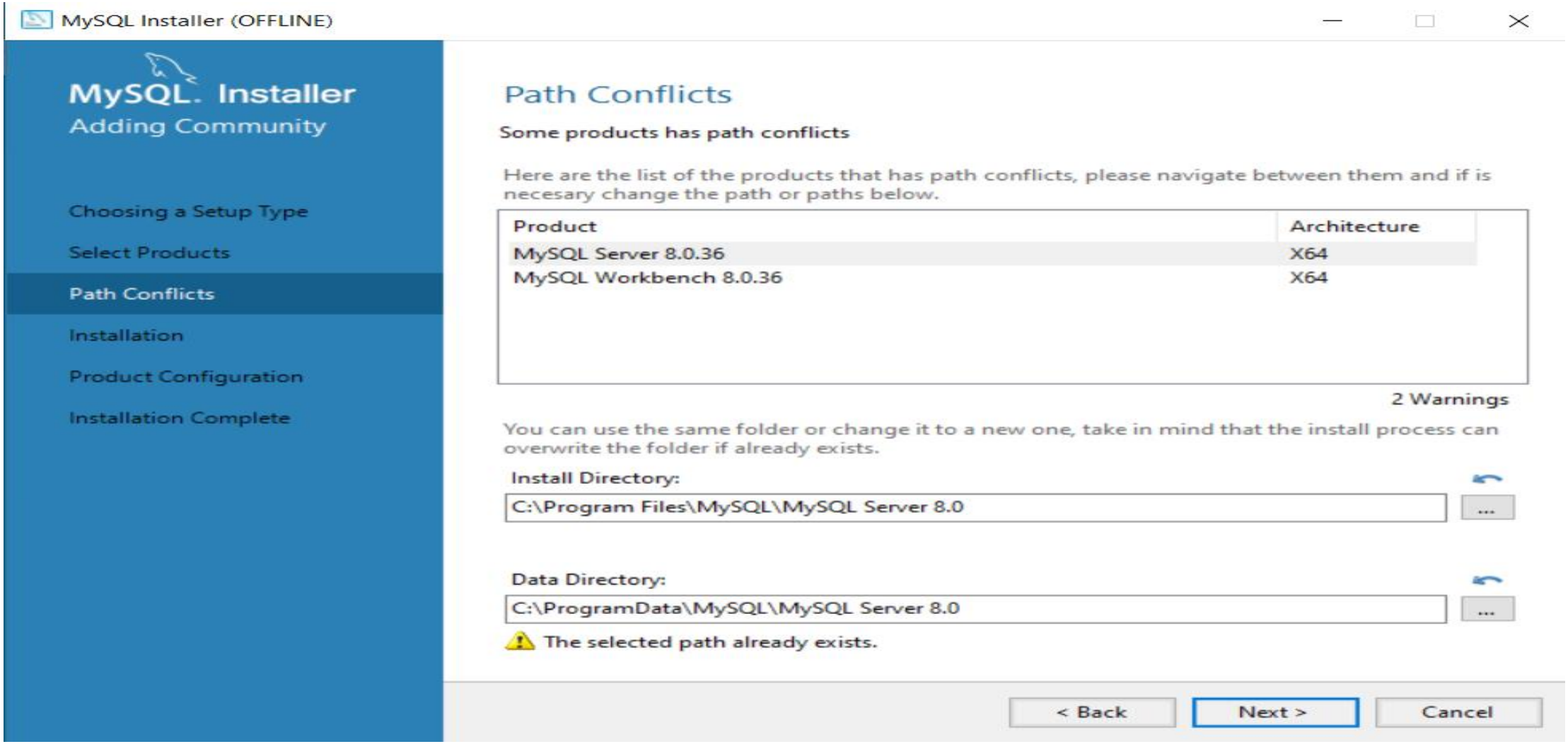

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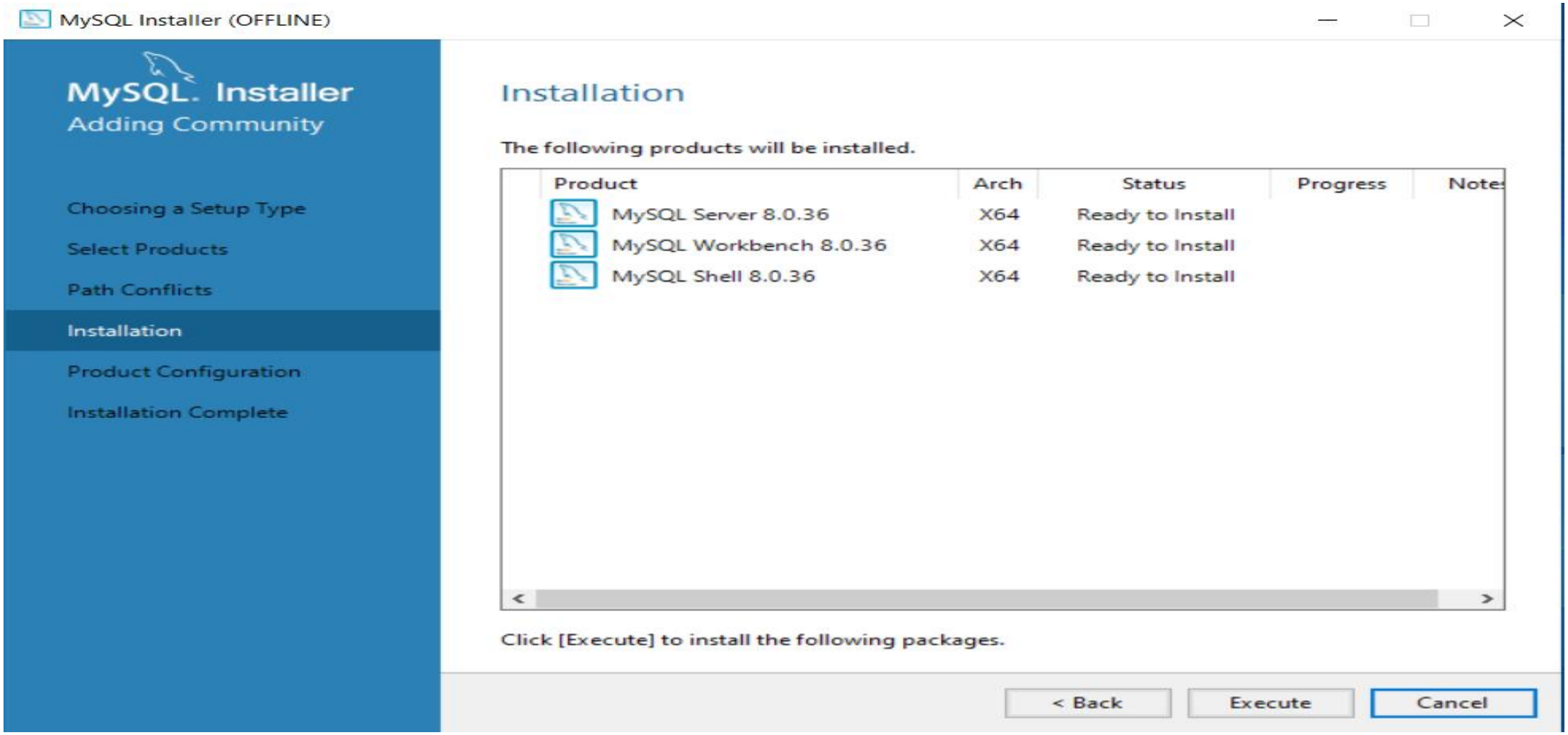

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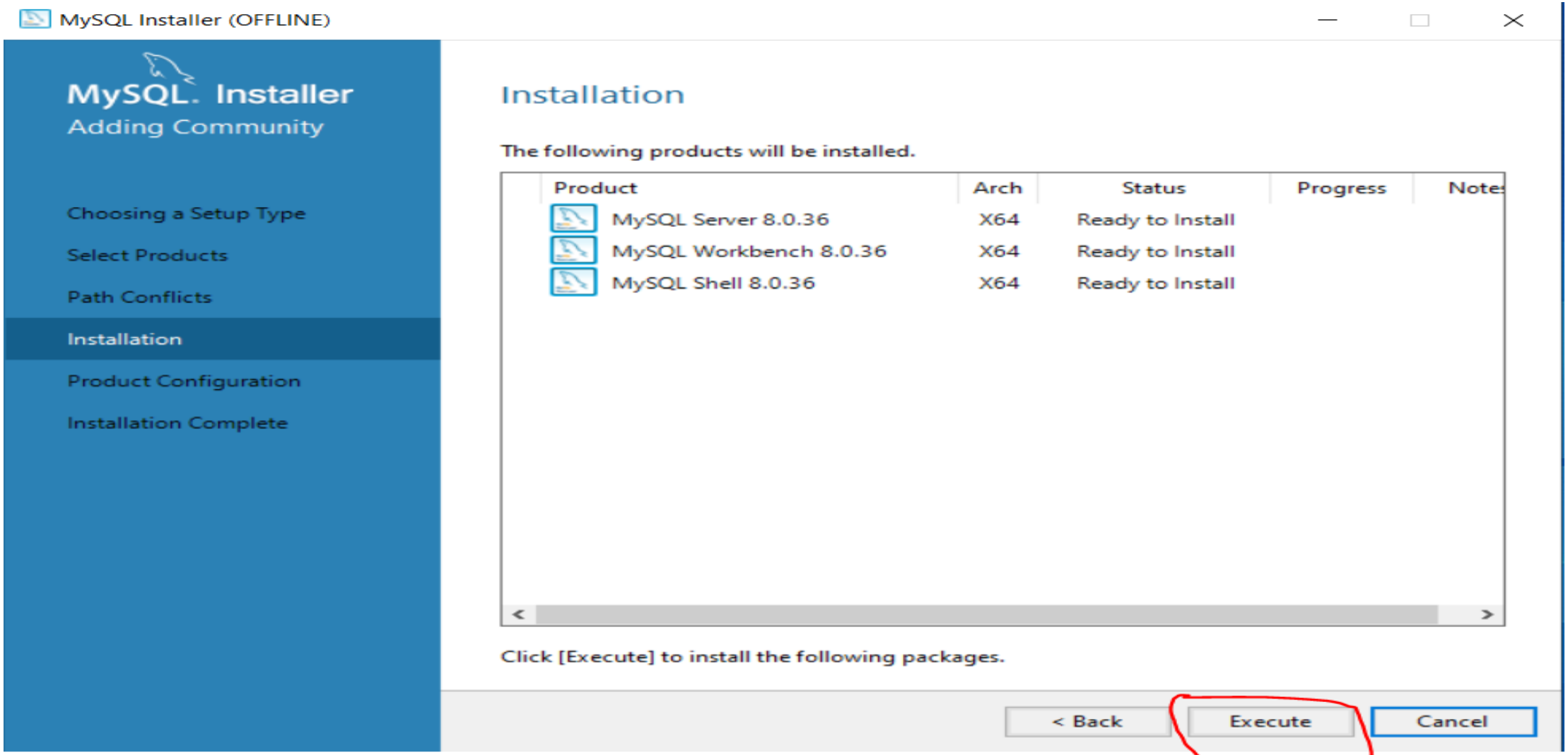

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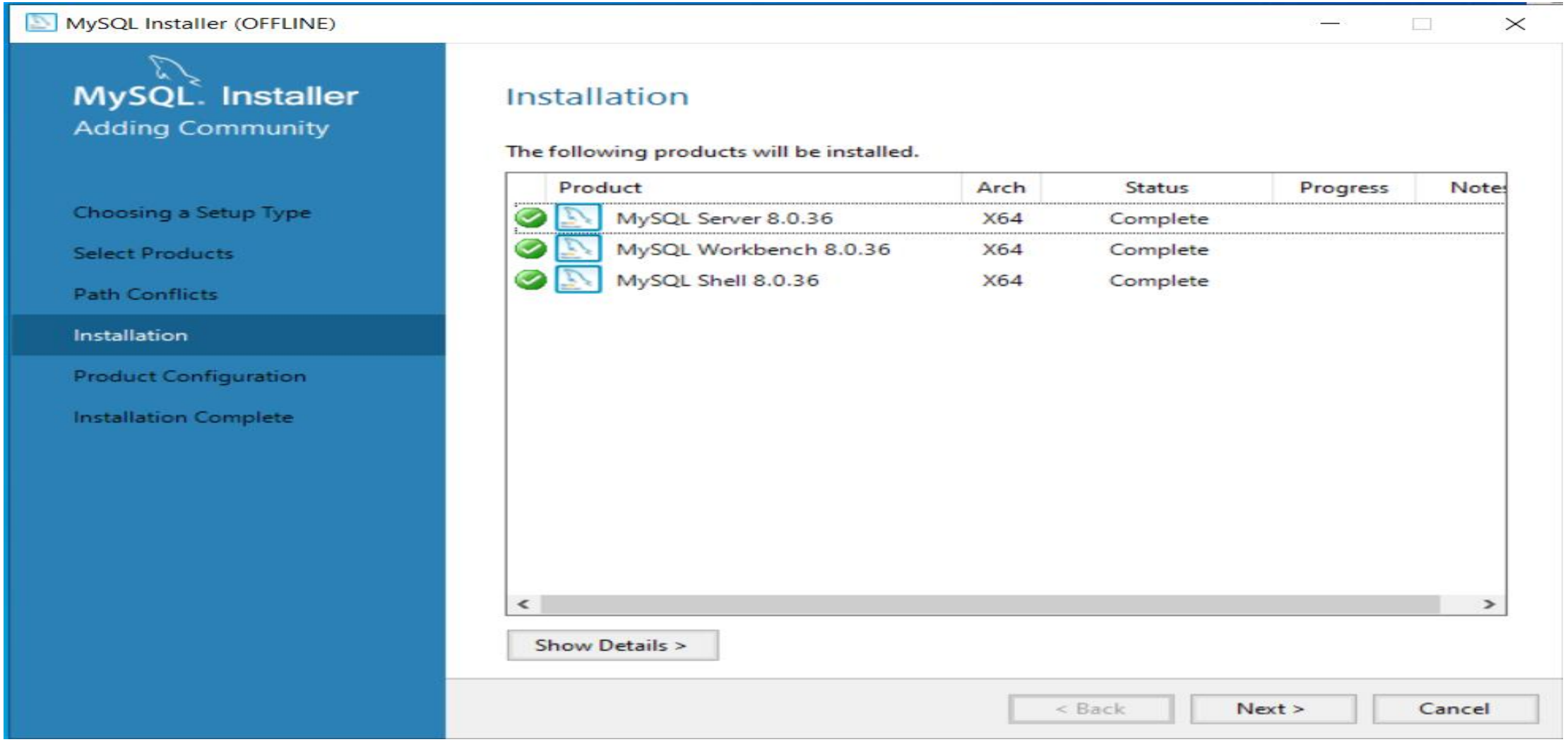

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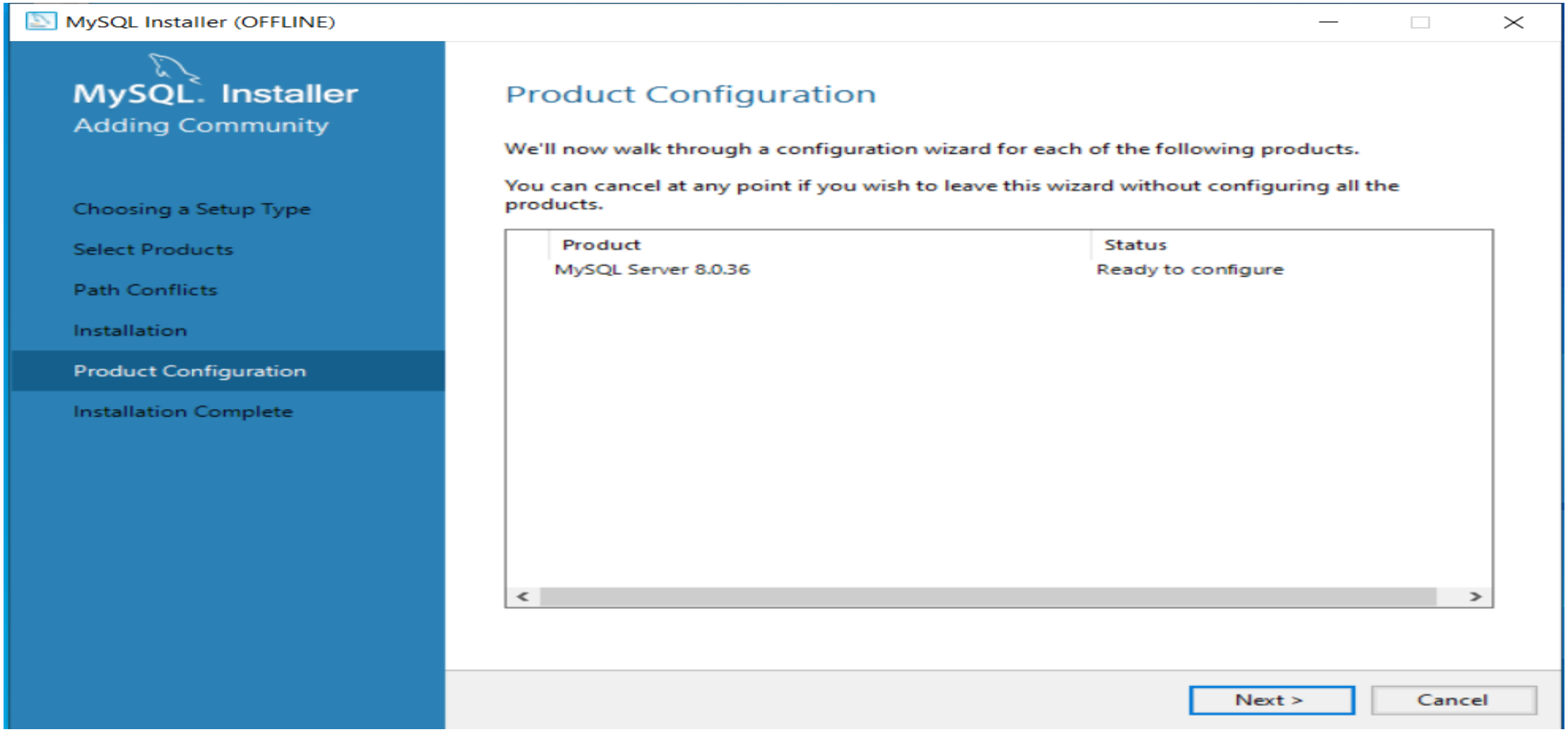

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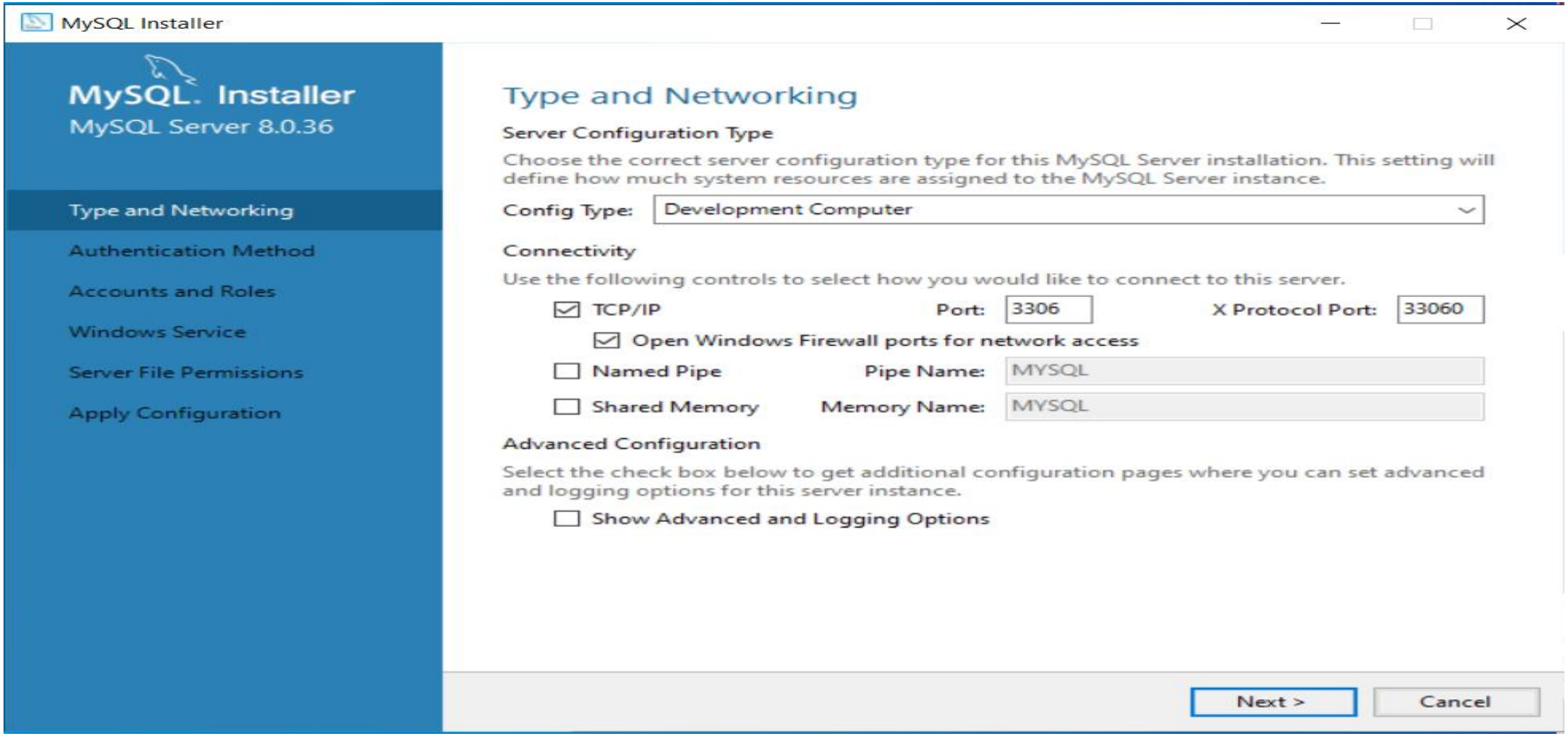

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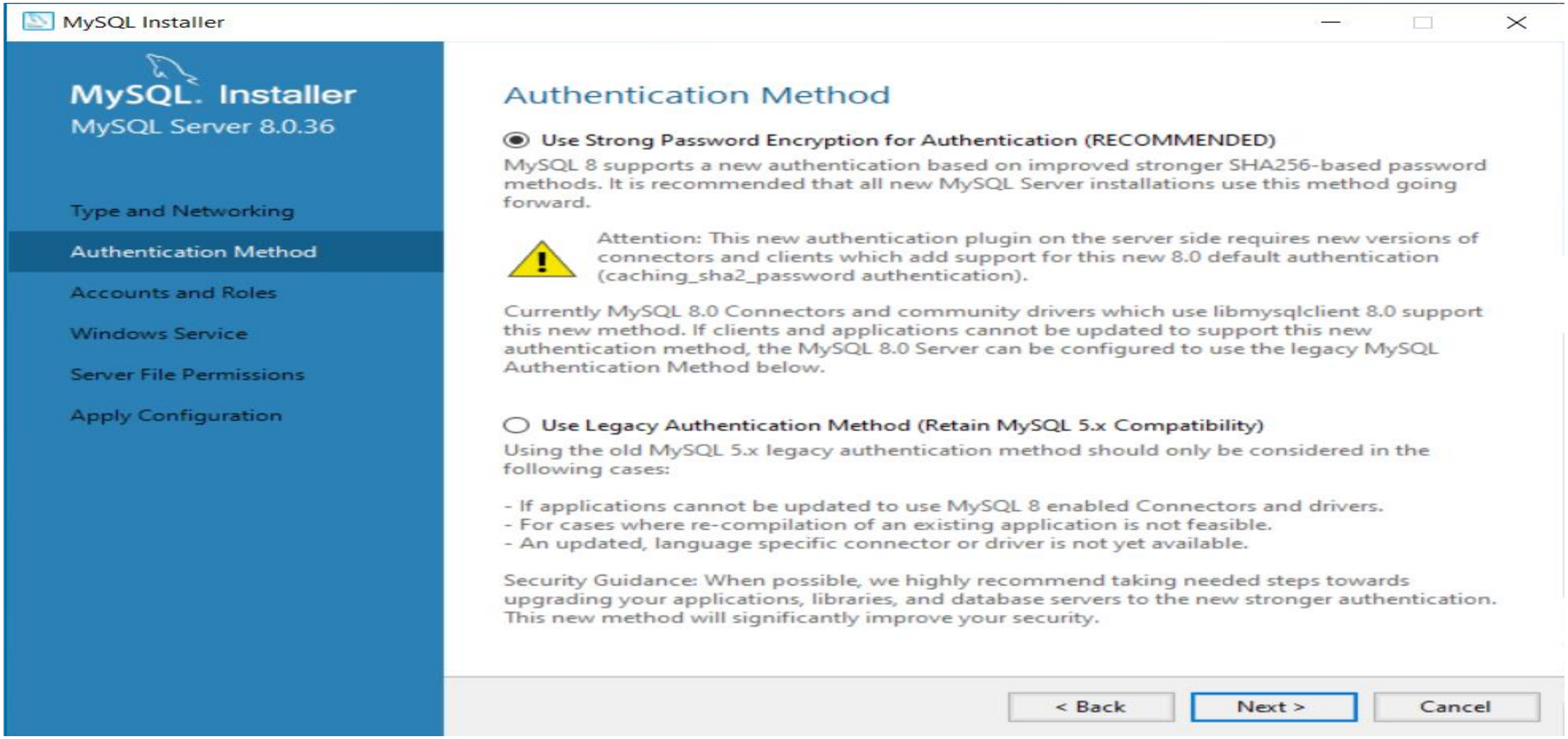

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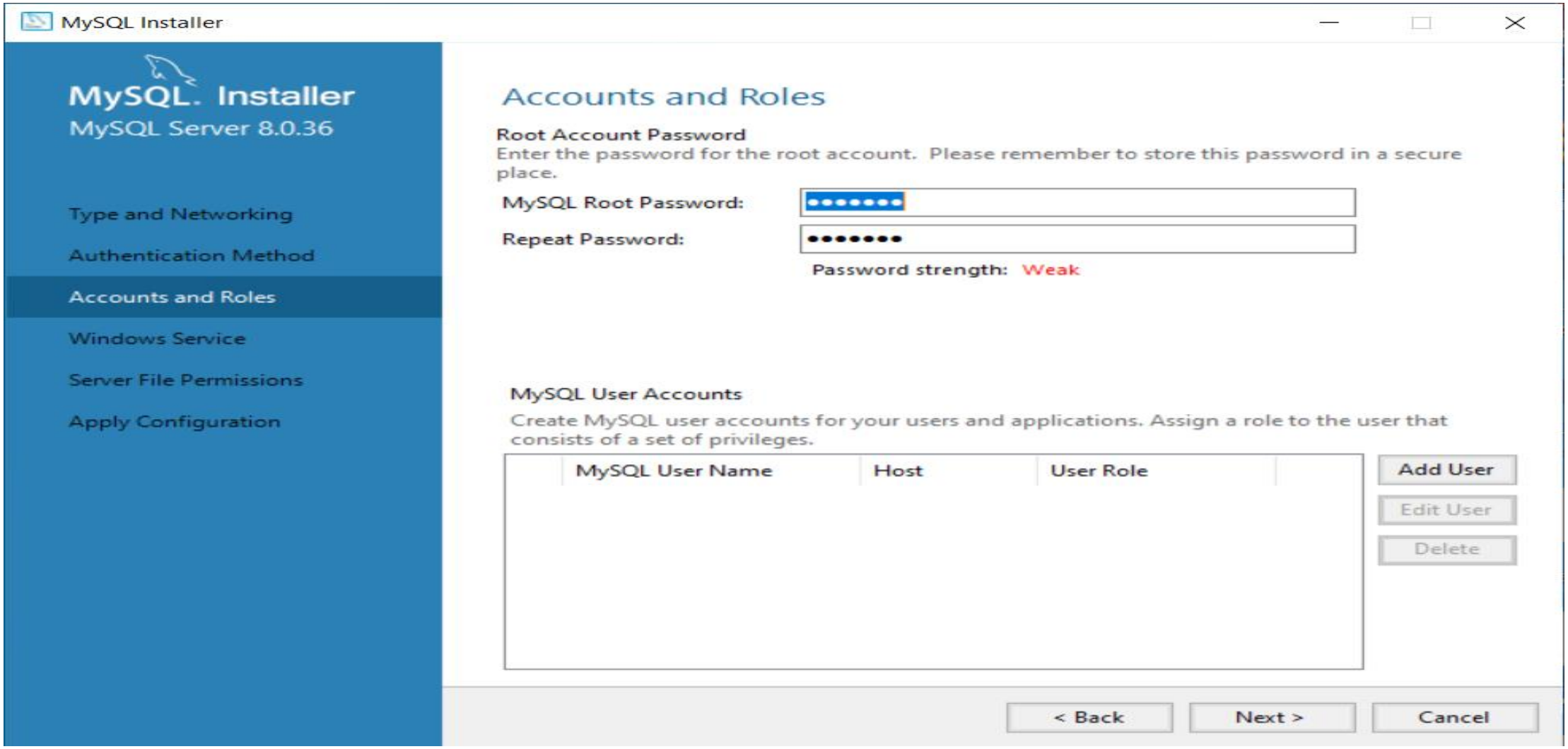

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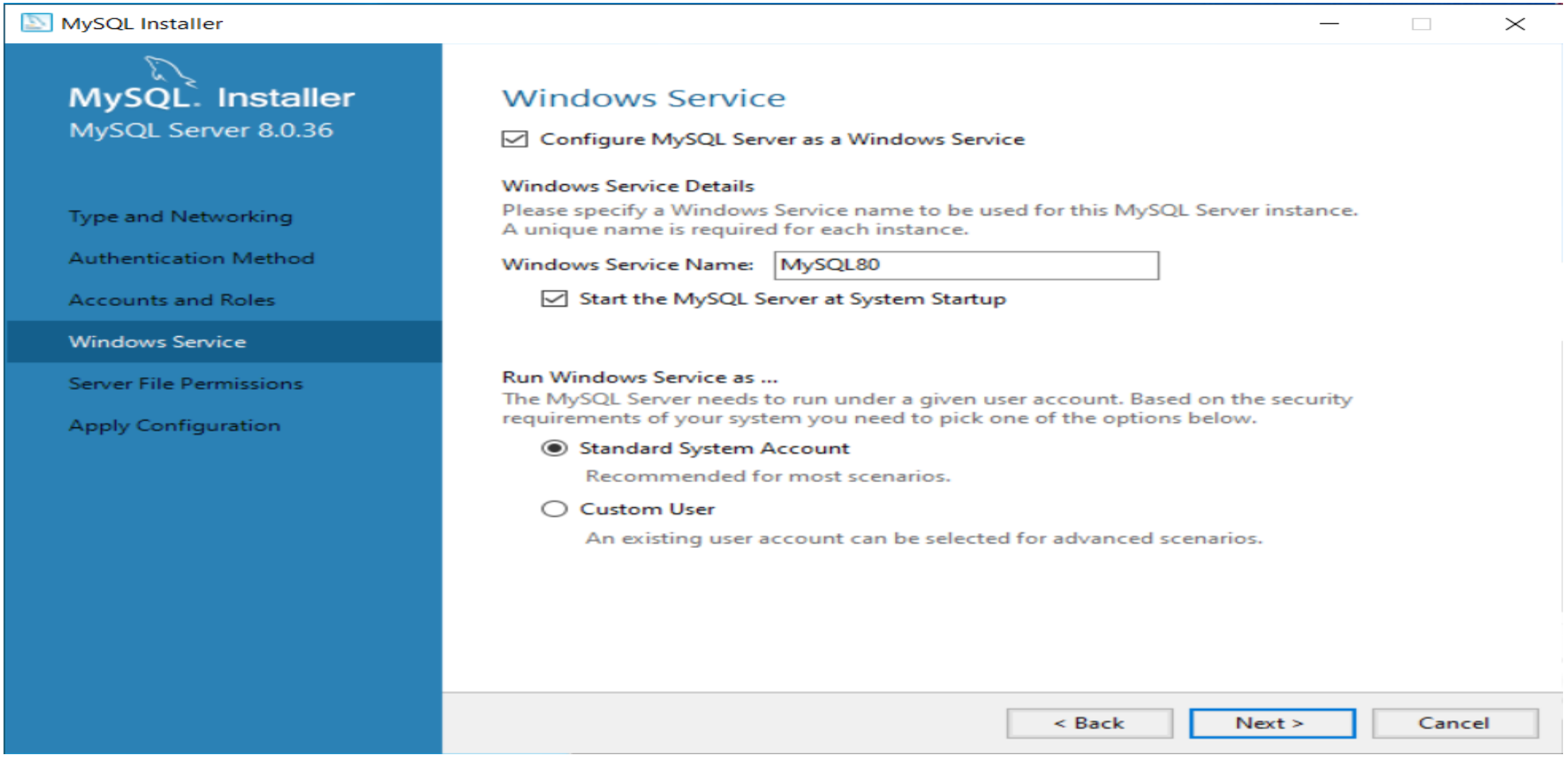

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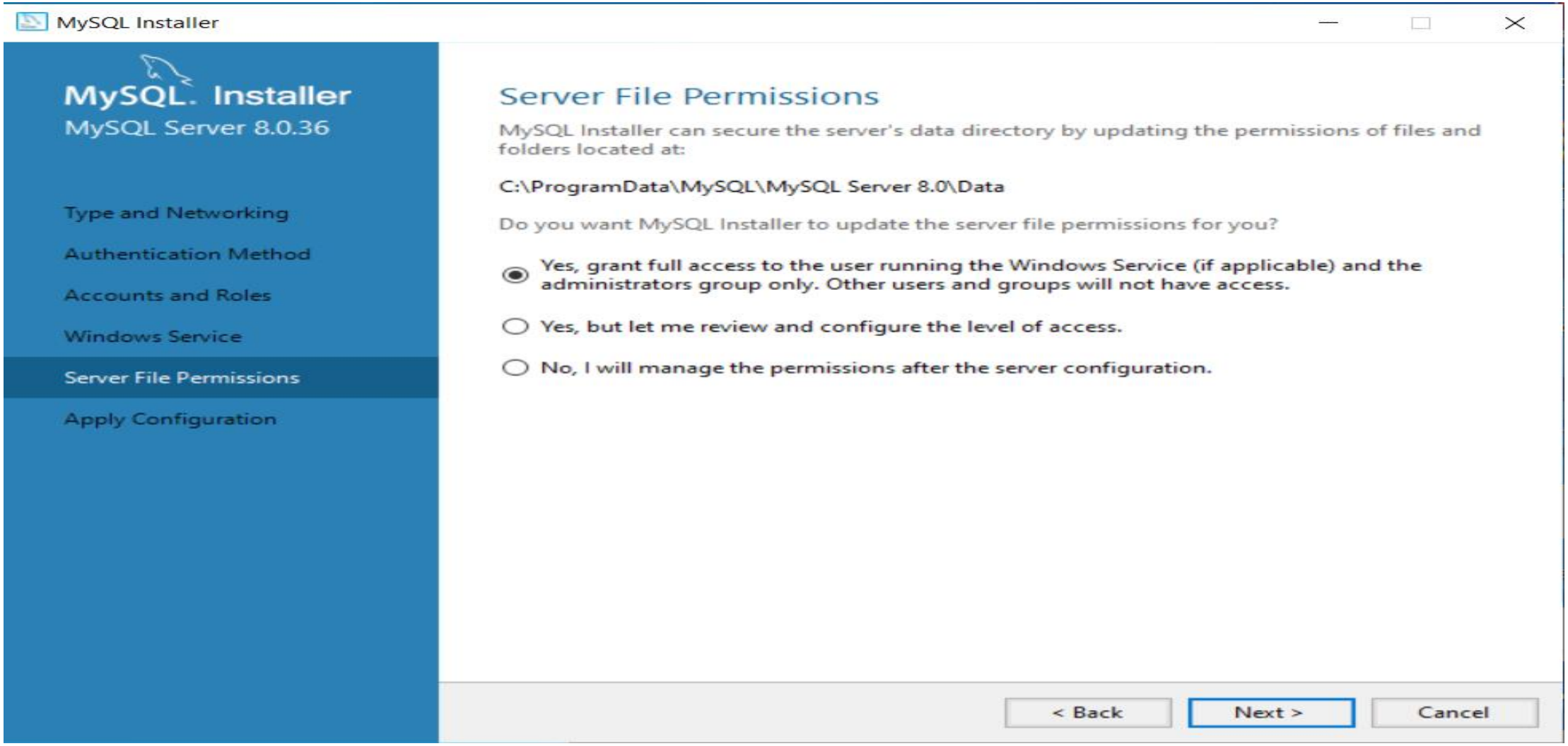

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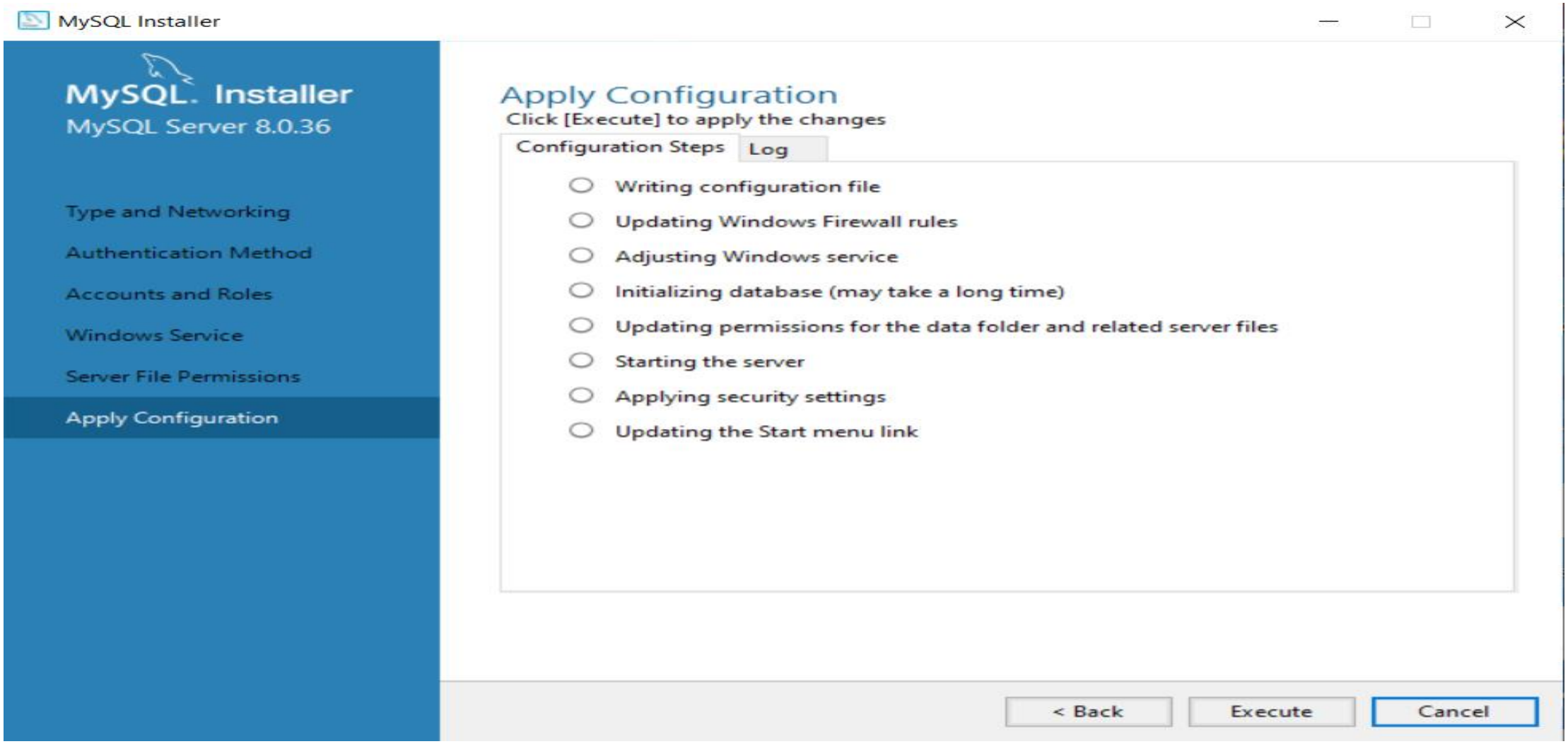

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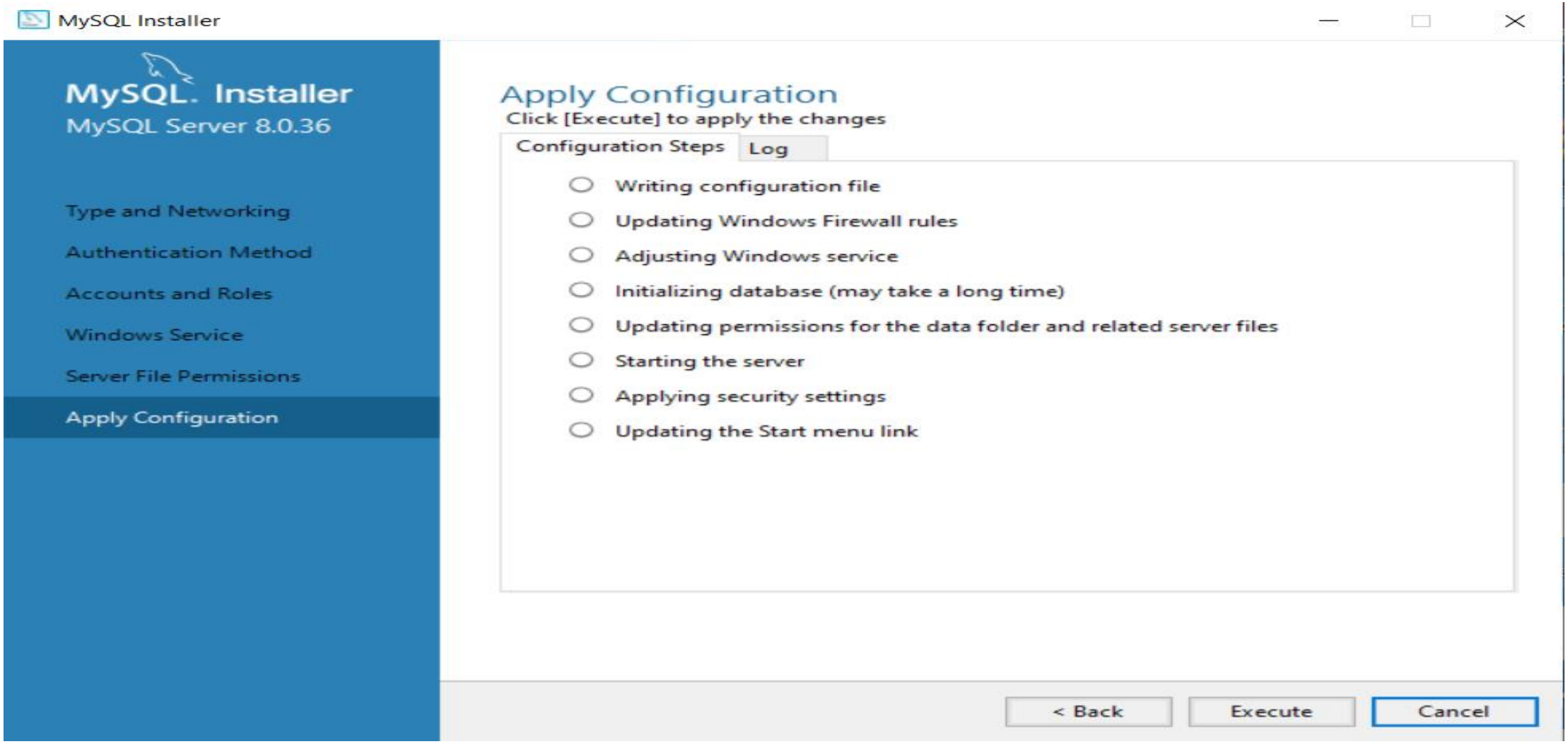

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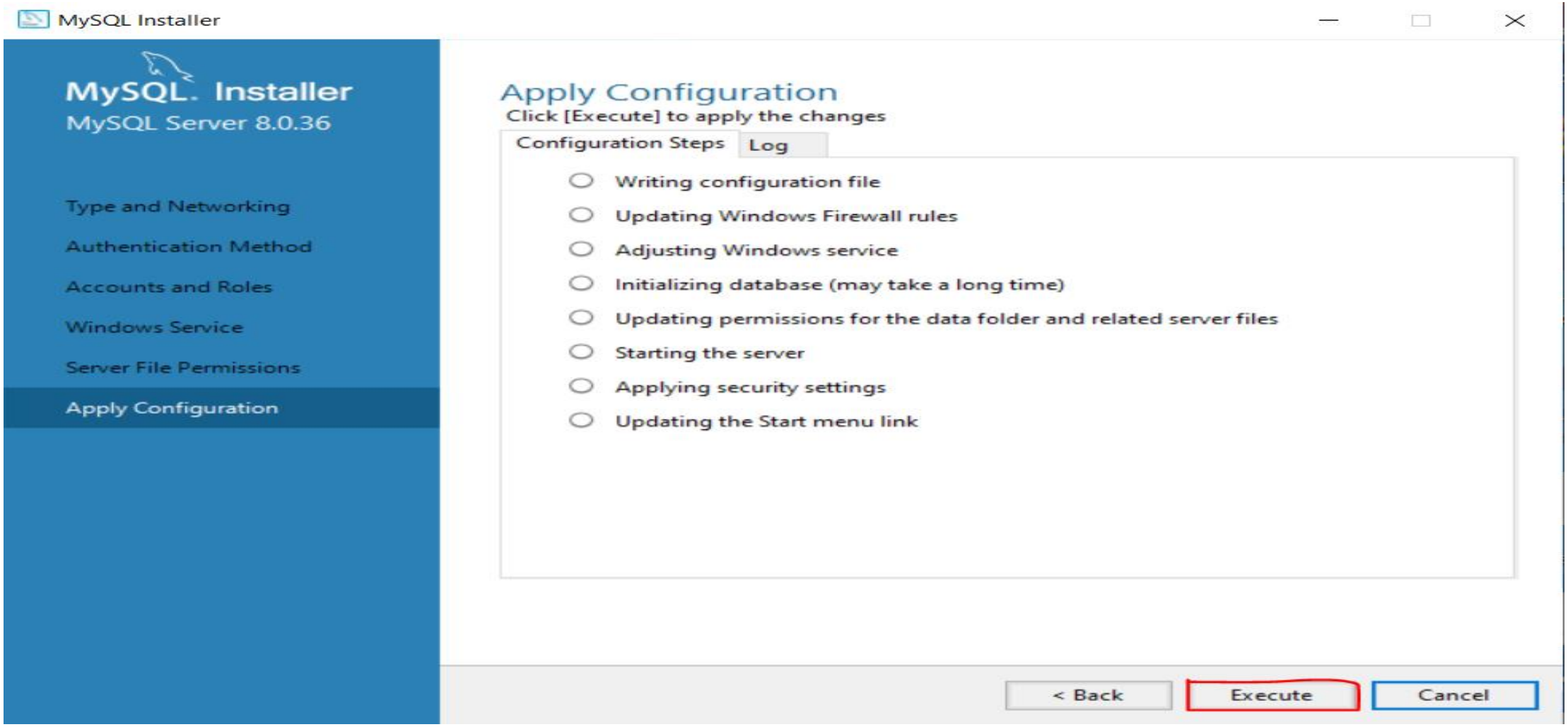

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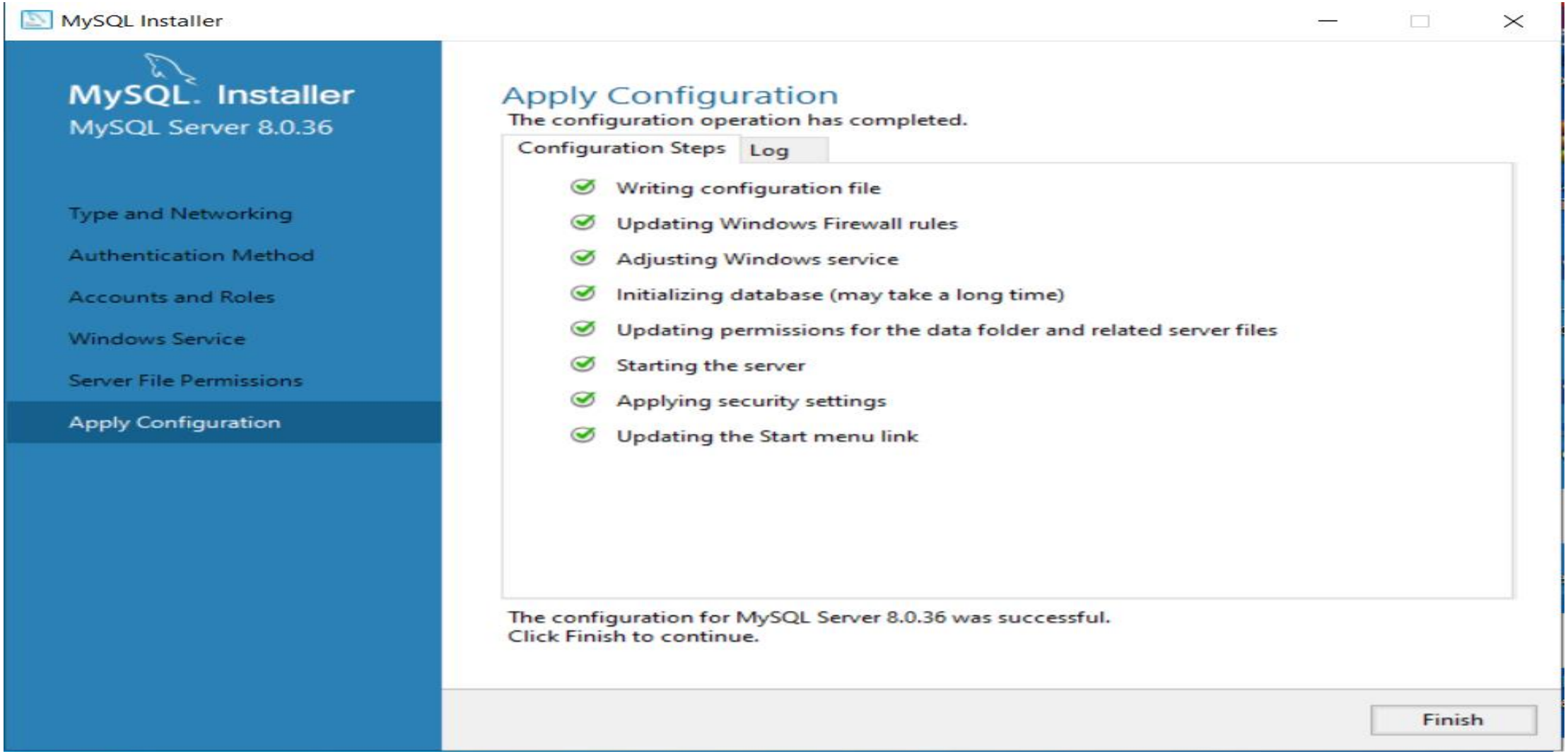

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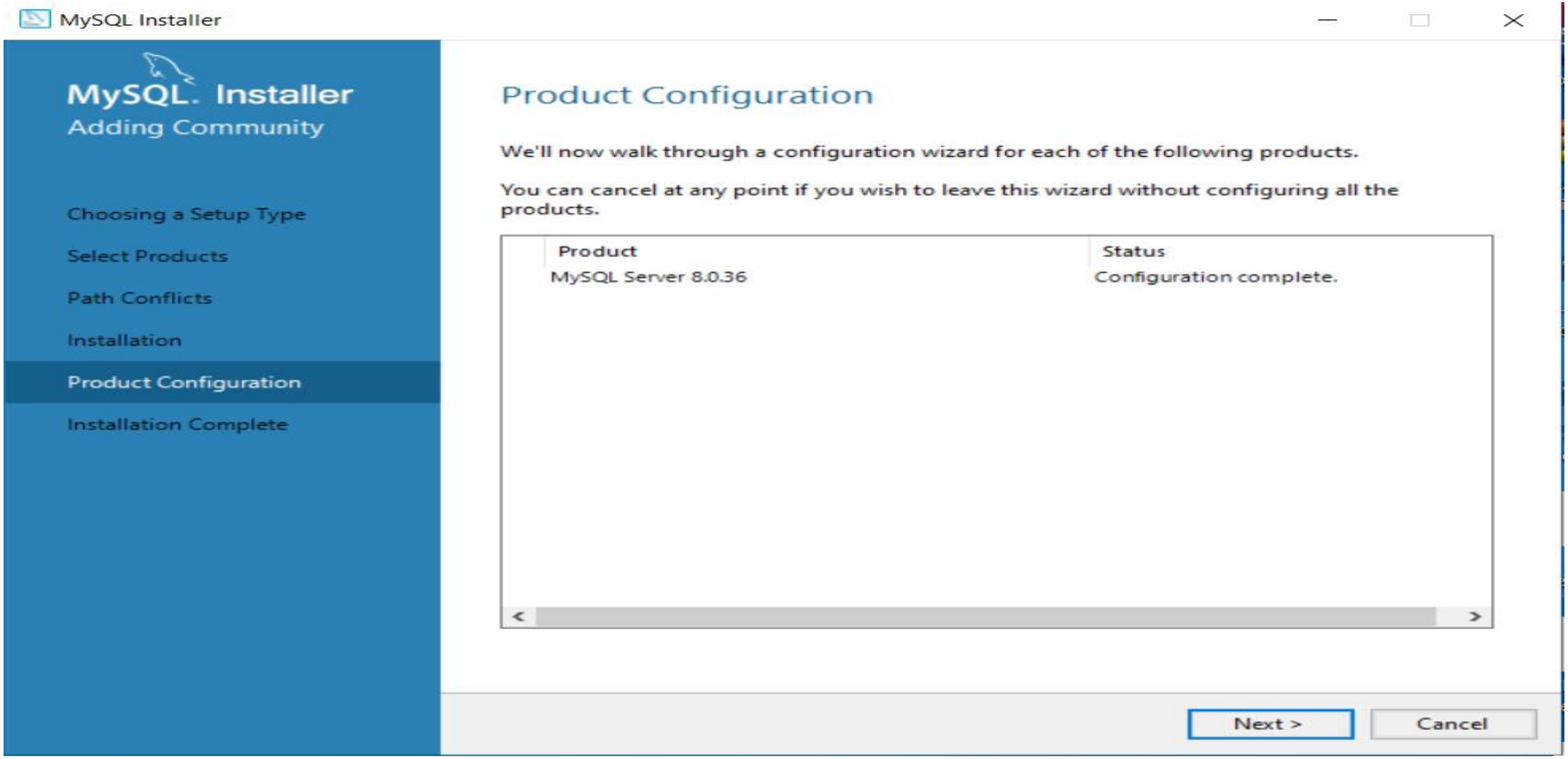

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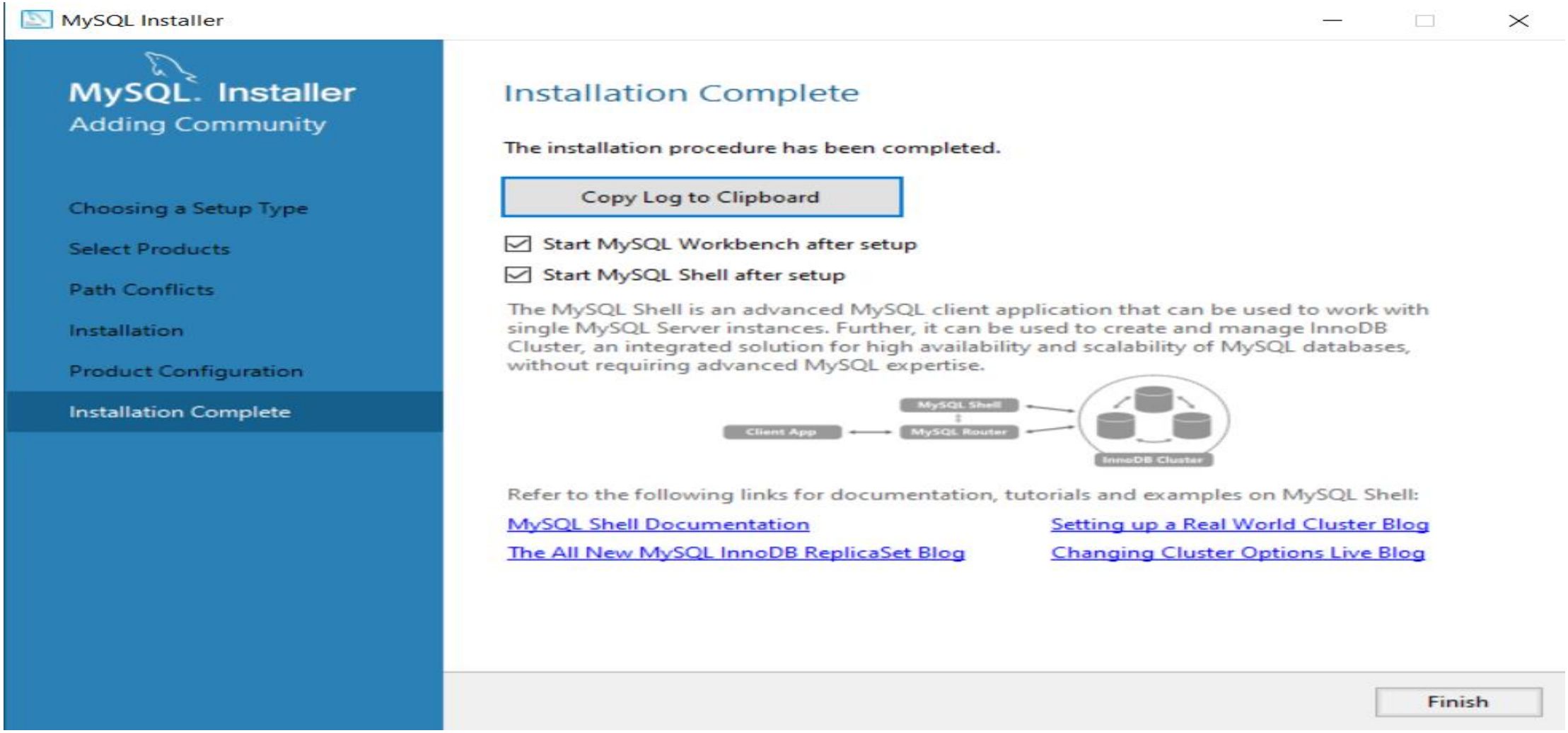
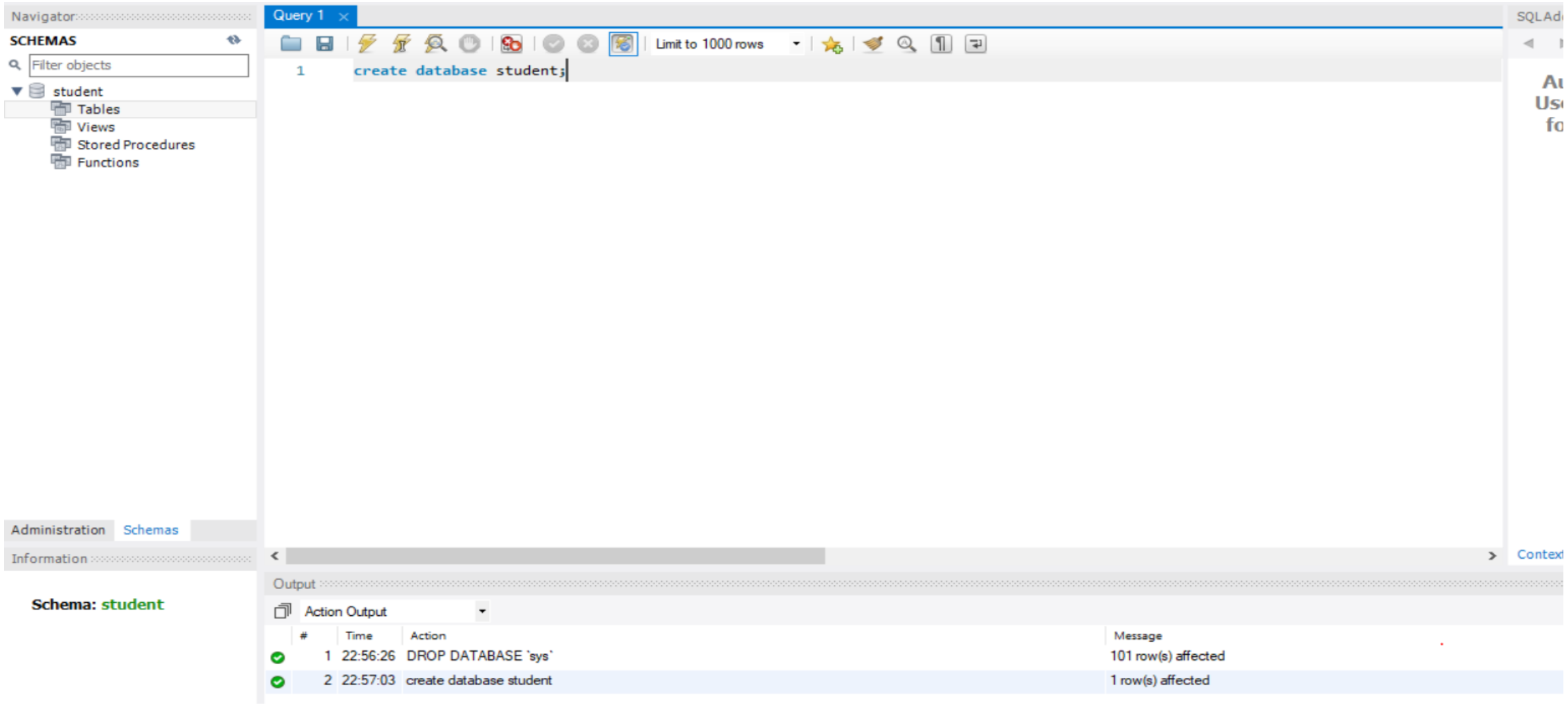


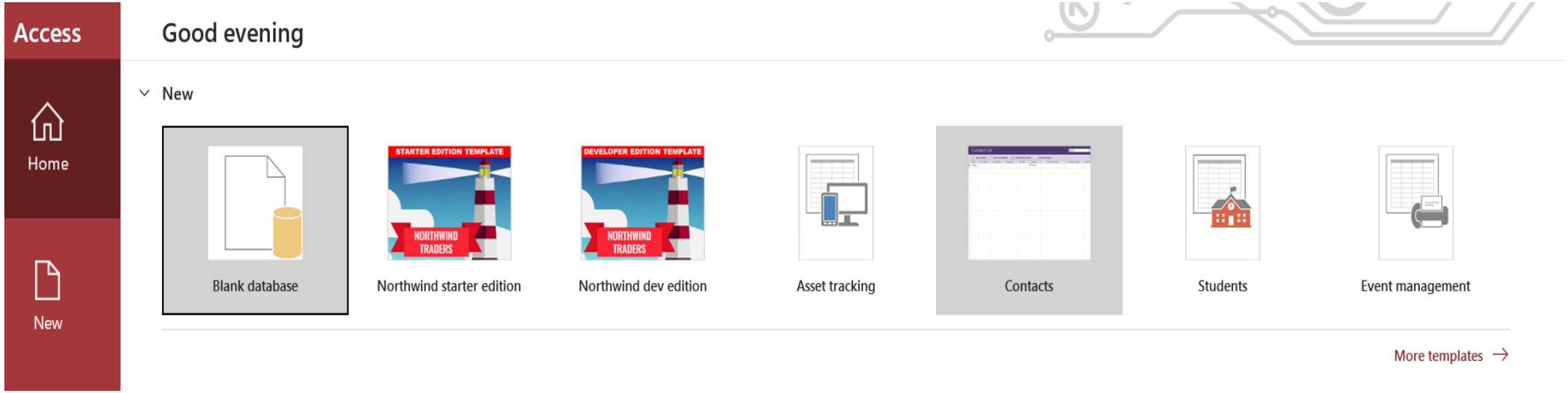
MySQL Workbench Installation

Video link:
https://classroom.google.com/c/NjU1ODEyMzcxODMz/m/NjY5MDMwOTM5NTUw/details

MySQL Workbench Creating Schema



Creating Database in Microsoft Access



Creating Tables

Courses

Tuesday, March 12, 2024
9:55:05 AM

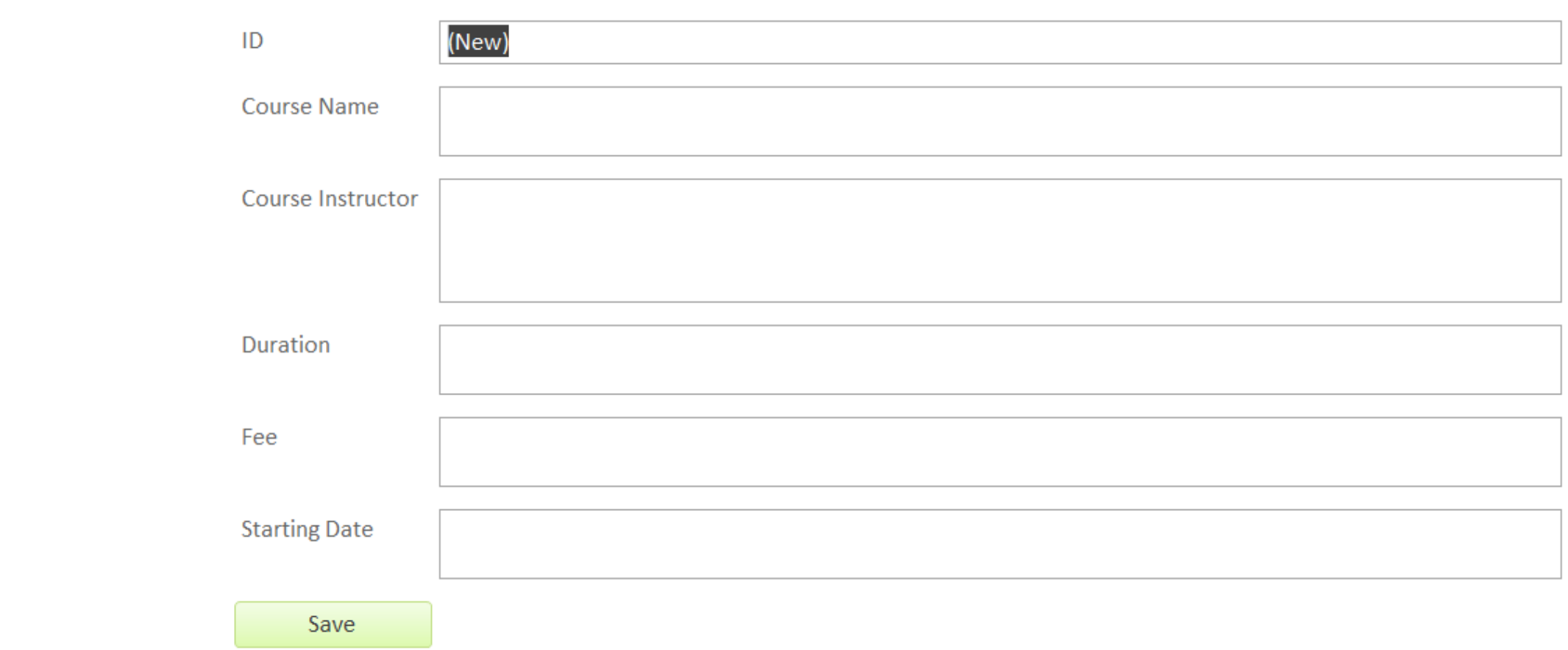
ID	Course Name	Course Instructor	Duration	Fee	Starting Date

Student

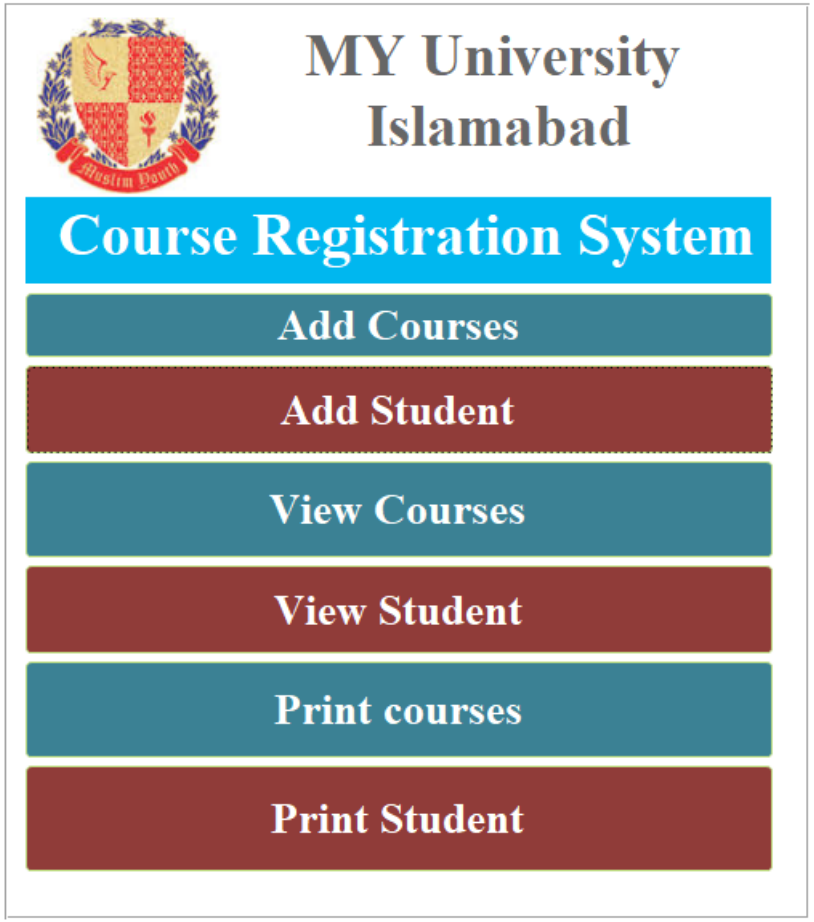
Tuesday, March 12, 2024
9:54:32 AM

ID	Student Name	Gender	Address	Mobile	Course ID	Instructor	Duration	Fee	Startingdate

Creating Forms, Reports



Creating Front end and inserting data



Lab Task: Hospital Management System

A Hospital Management System is an integrated information system for managing all aspects of a hospital's operations such as medical, financial, administrative, legal, and compliance. It includes electronic health records, business intelligence, and revenue cycle management. Hospitals and healthcare facilities improve the quality of healthcare services, reduce operating costs, and improve the revenue cycle by using such hospital management systems.

Your Task are Create Table, Form and Report which contain following information:

i. Patient Detail
ii. Patient Diagnosis
iii. Diagnosis Detail
iv. Doctor Detail
v. Patient Diet Advice

Lab Task: Hospital Management System

i. Patient Details

Field Name
Registration_No
Registration_Date
Name
Address
City
TelePhone_Mobile_No
Marital_Status
Religion
Gender
Father_Husband_Name