

삼성 청년 SW 아카데미

MySQL

Confidential

<알림>

본 강의는 삼성 청년 SW아카데미의 컨텐츠로
보안서약서에 의거하여
강의 내용을 어떠한 사유로도 임의로 복사,
촬영, 녹음, 복제, 보관, 전송하거나
허가 받지 않은 저장매체를
이용한 보관, 제3자에게 누설, 공개,
또는 사용하는 등의 행위를 금합니다.

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오늘의 포인트

- MySQL 설치 및 환경 설정
- Workbench 사용법(설정)
- 계정 생성 및 권한

MySQL Install

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✓ MySQL Download

- <https://dev.mysql.com/downloads/mysql/>
- 위 사이트에서 OS에 맞는 버전의 MySQL을 download.

The screenshot shows the MySQL Downloads page for MySQL Installer 8.0.21. The top navigation bar includes tabs for "General Availability (GA) Releases" (which is selected), "Archives", and a help icon. A dropdown menu under "Select Operating System" is set to "Microsoft Windows". On the right, there's a link to "Looking for previous GA versions?". Below, two download options are listed:

Installer Type	Version	File Size	Action
Windows (x86, 32-bit), MSI Installer (mysql-installer-web-community-8.0.21.0.msi)	8.0.21	24.5M	Download
Windows (x86, 32-bit), MSI Installer (mysql-installer-community-8.0.21.0.msi)	8.0.21	427.6M	Download

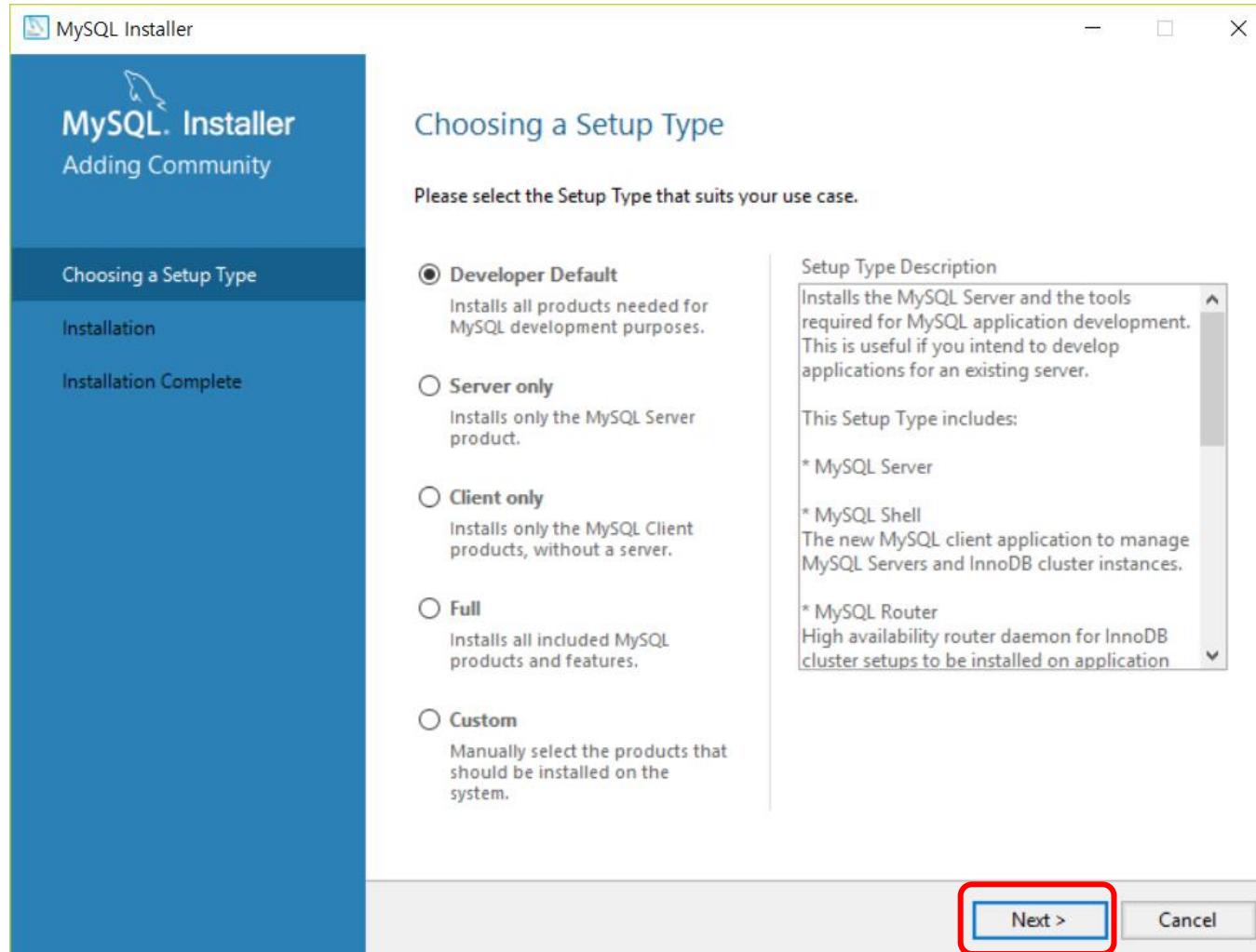
Below the download links, a note suggests using MD5 checksums and GnuPG signatures for package verification.

MySQL 설치

✓ MySQL 설치

- Developer Default 선택 후 Next click.

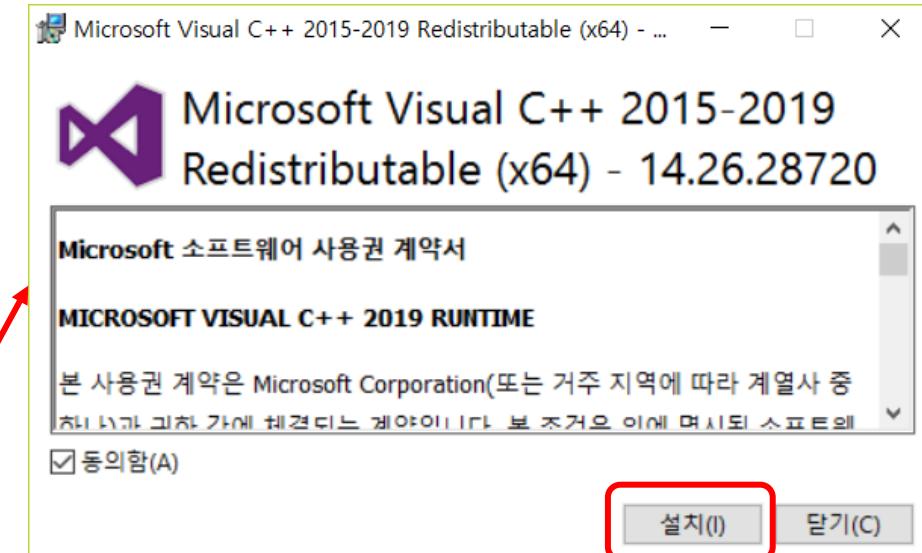
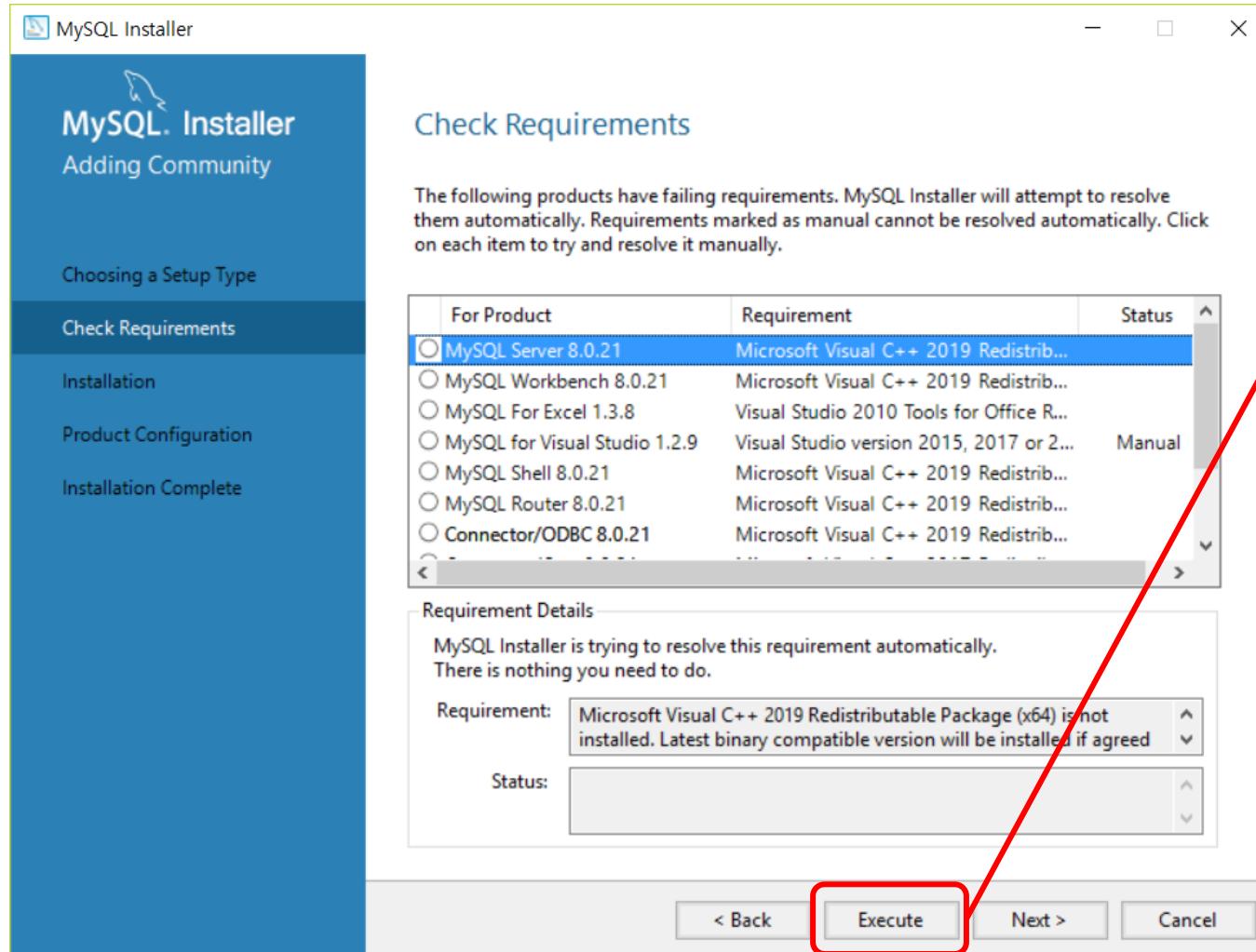
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MySQL 설치

✓ MySQL 설치

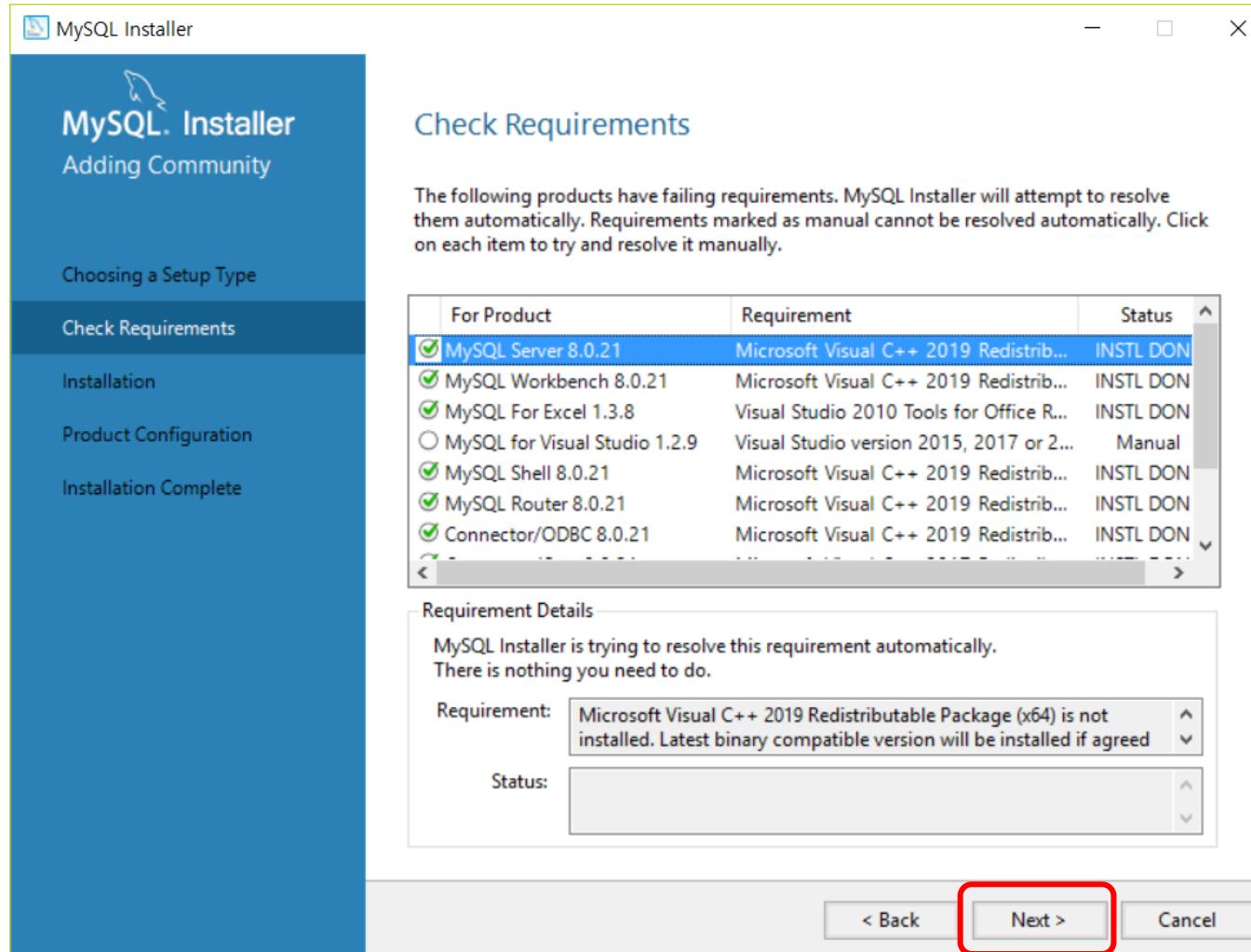
- Execute click 후 Visual C++ 설치.



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✓ MySQL 설치

- Install 확인 후 Next click.

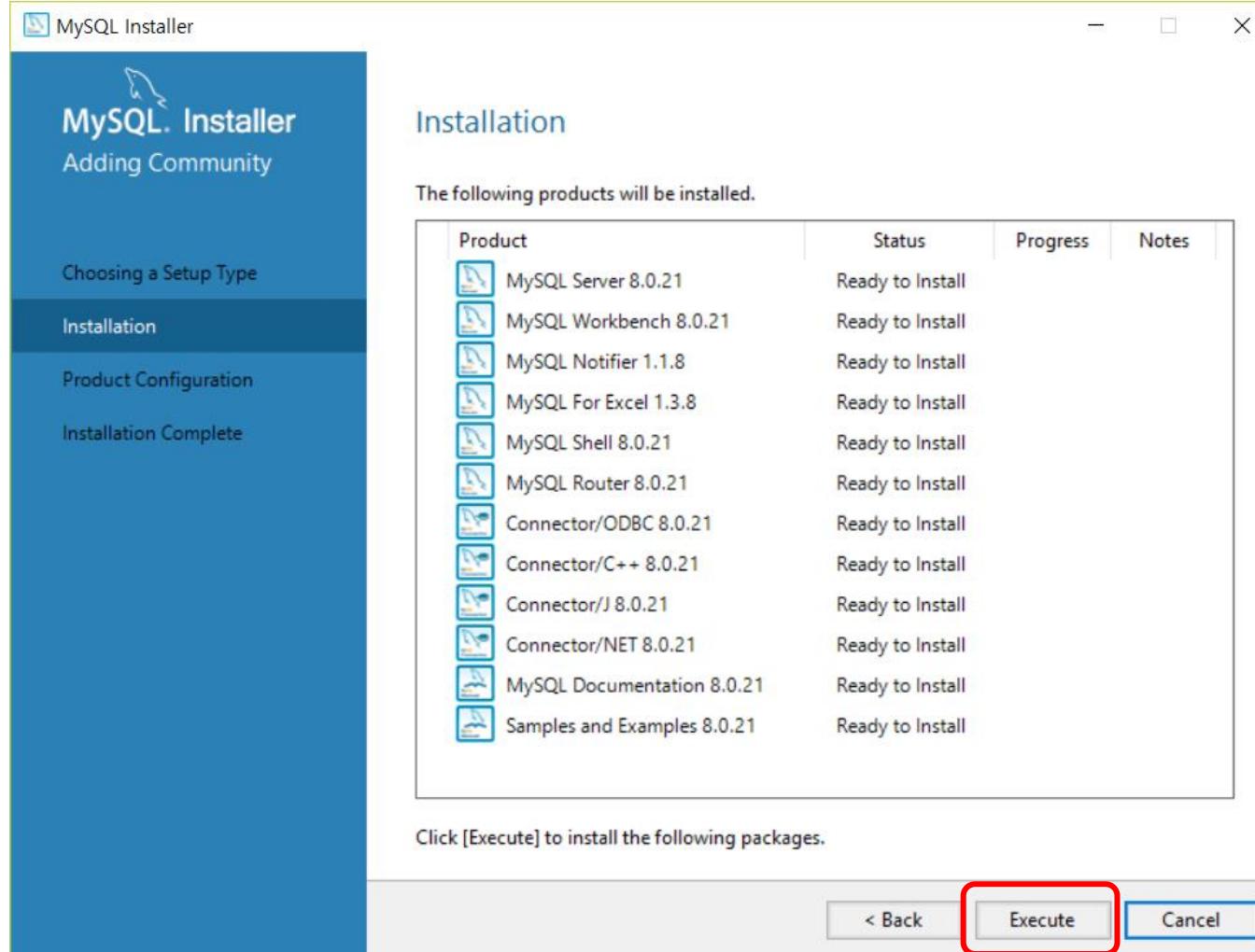


MySQL 설치

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✓ MySQL 설치

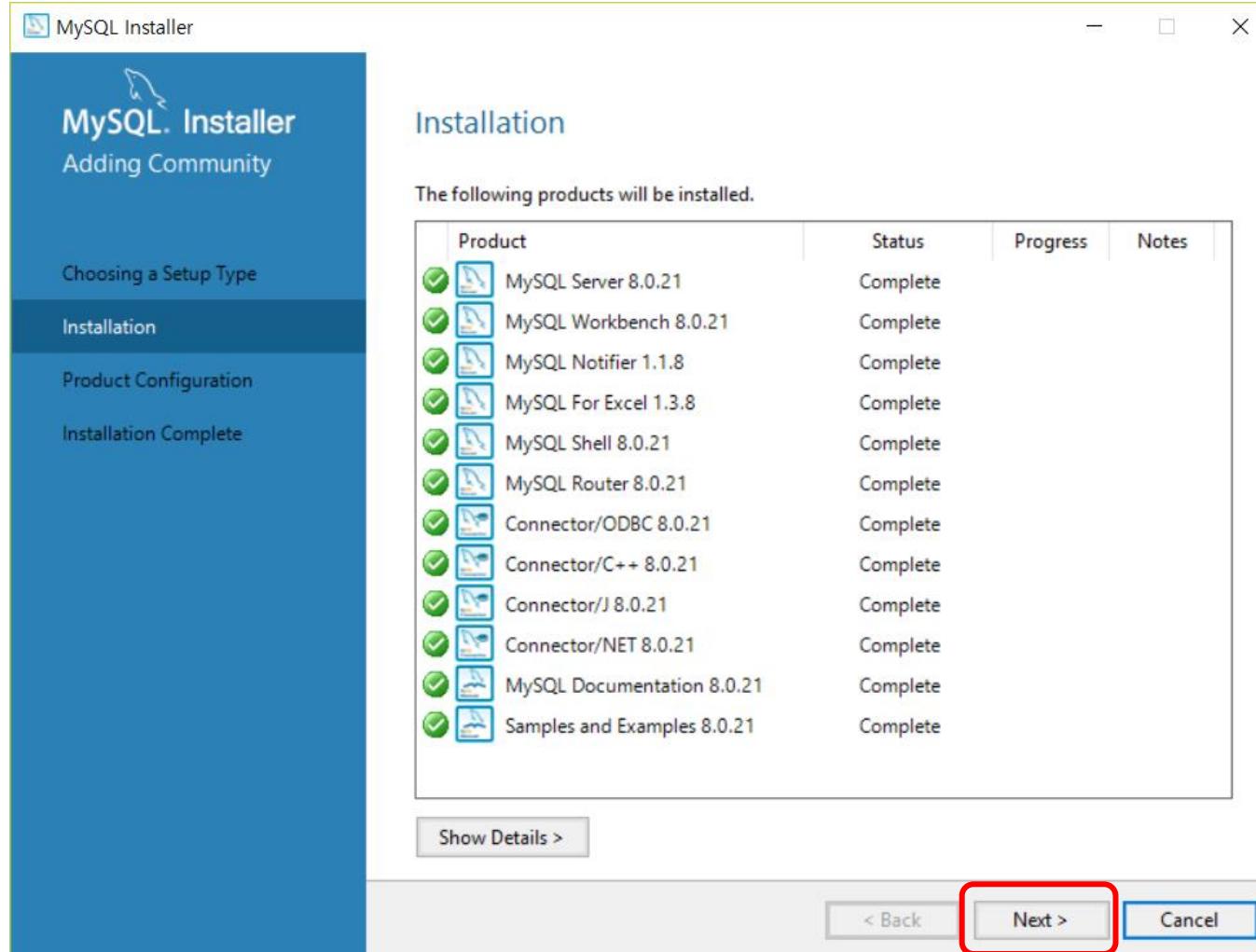
- Execute click하여 following products install.



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✓ MySQL 설치

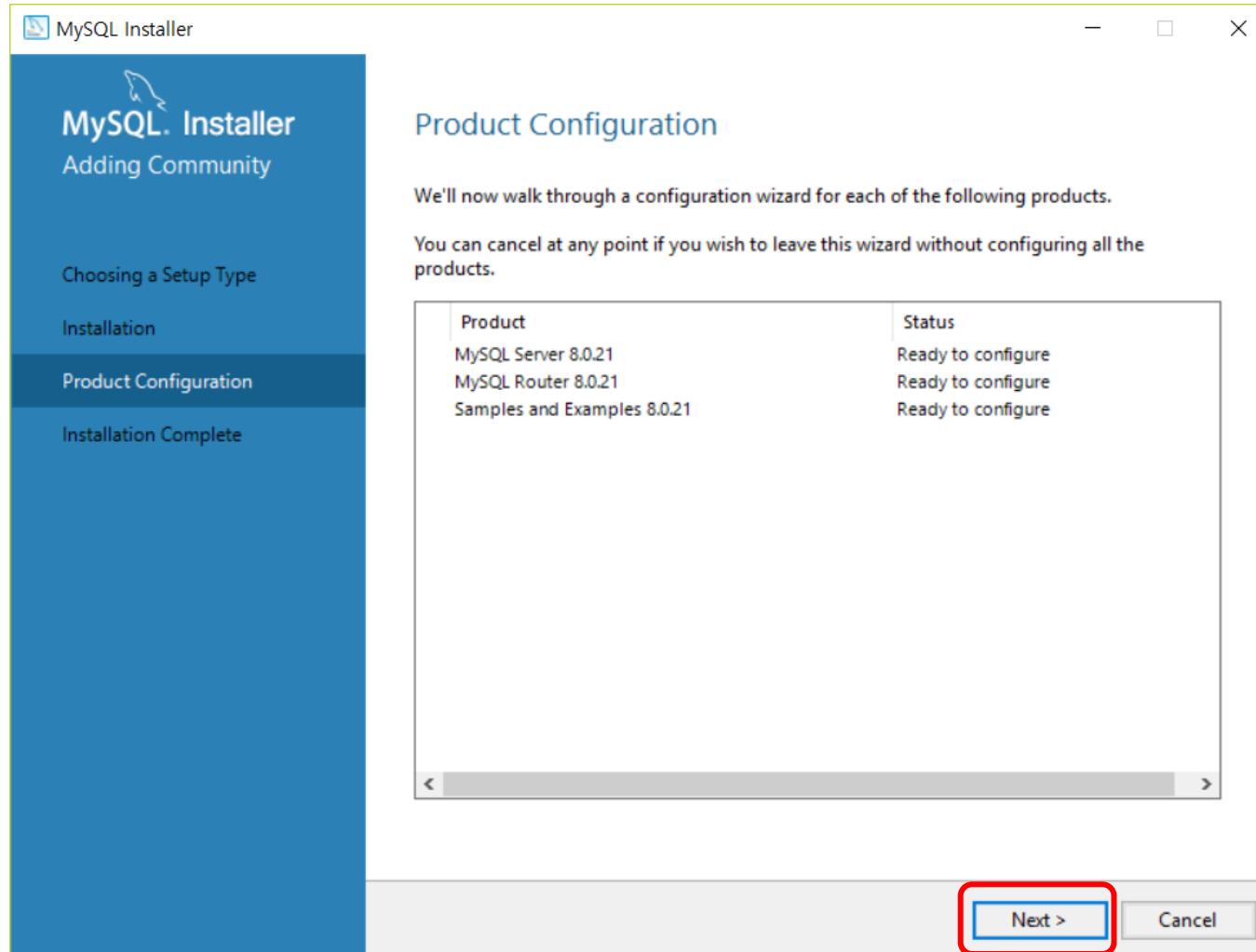
- Install 확인 후 Next click.



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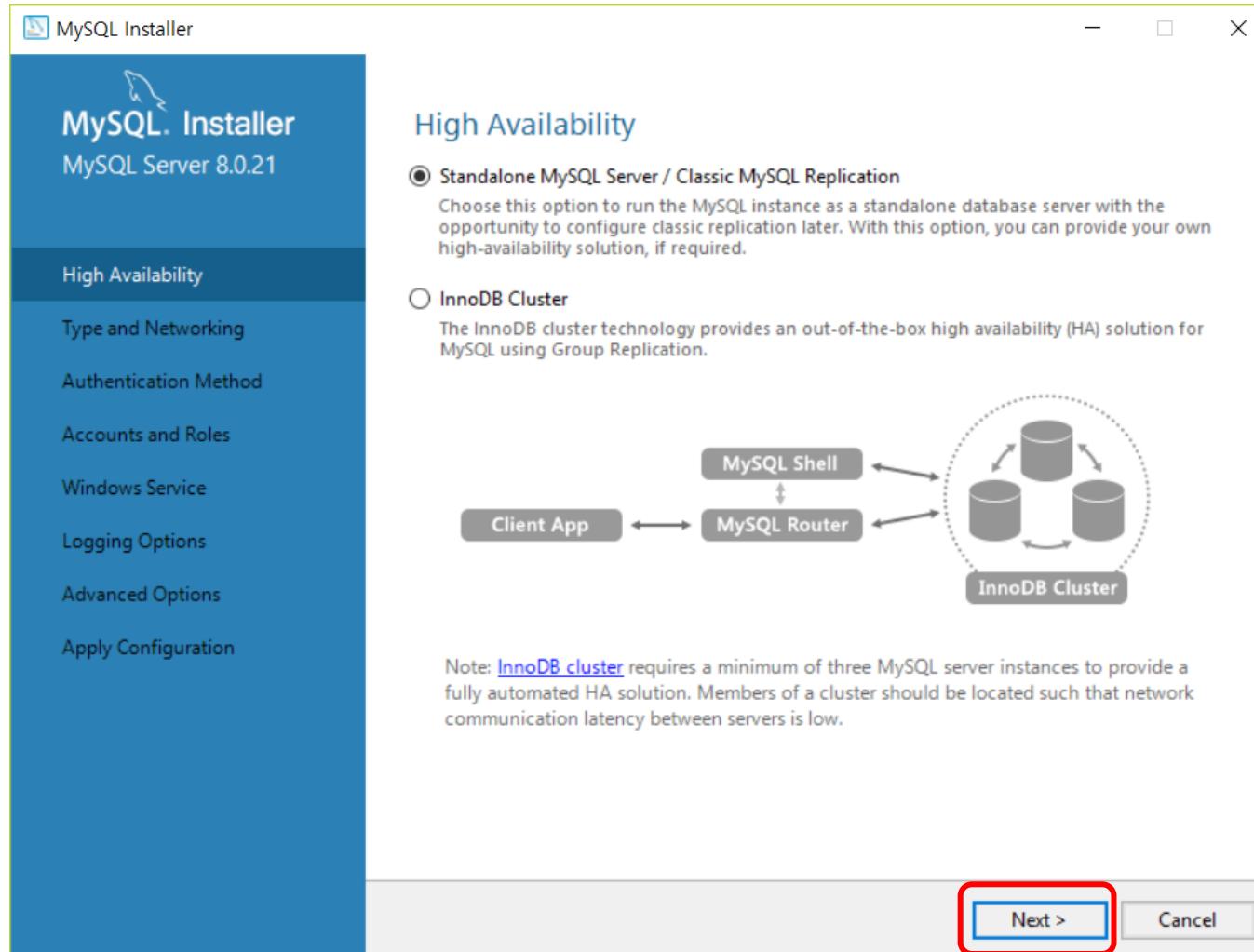
✓ MySQL 설치

- Next click.



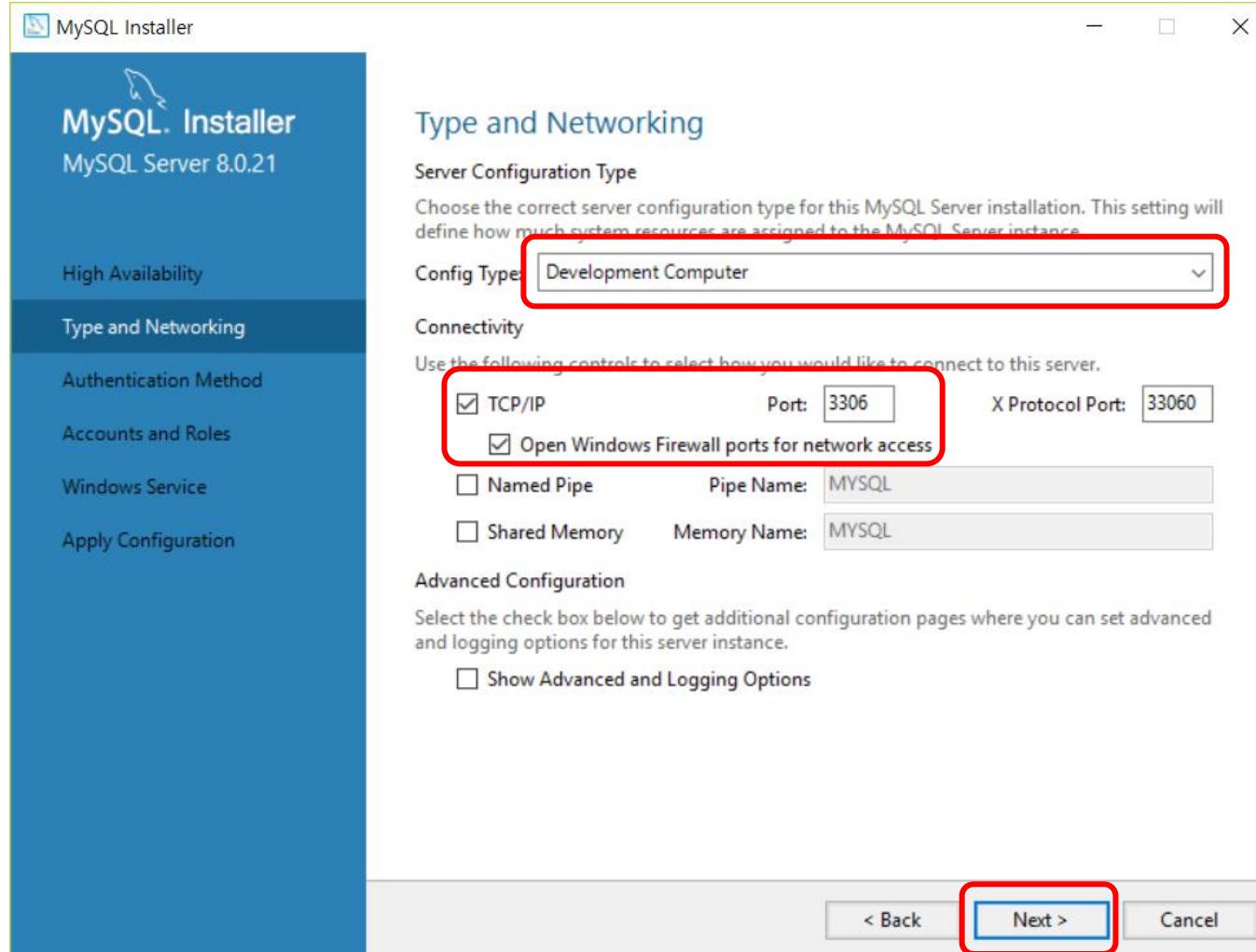
✓ MySQL 설치

- Standalone MySQL Server 선택 후 Next click.



✓ MySQL 설치

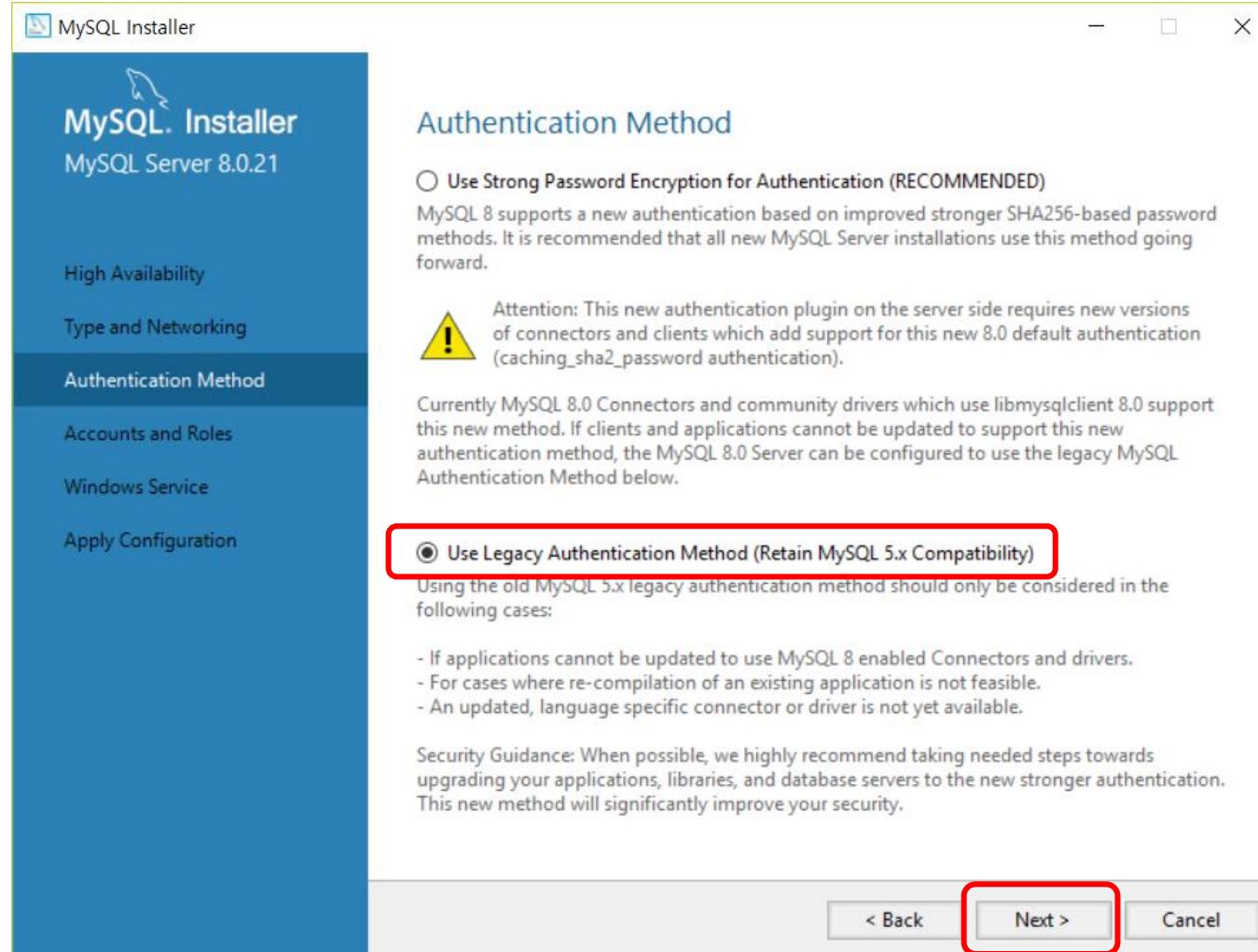
- 설정 확인 후 Next click.



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✓ MySQL 설치

- Use Legacy Authentication Method 선택 후 Next click. (기존 프로그램과의 호환성)

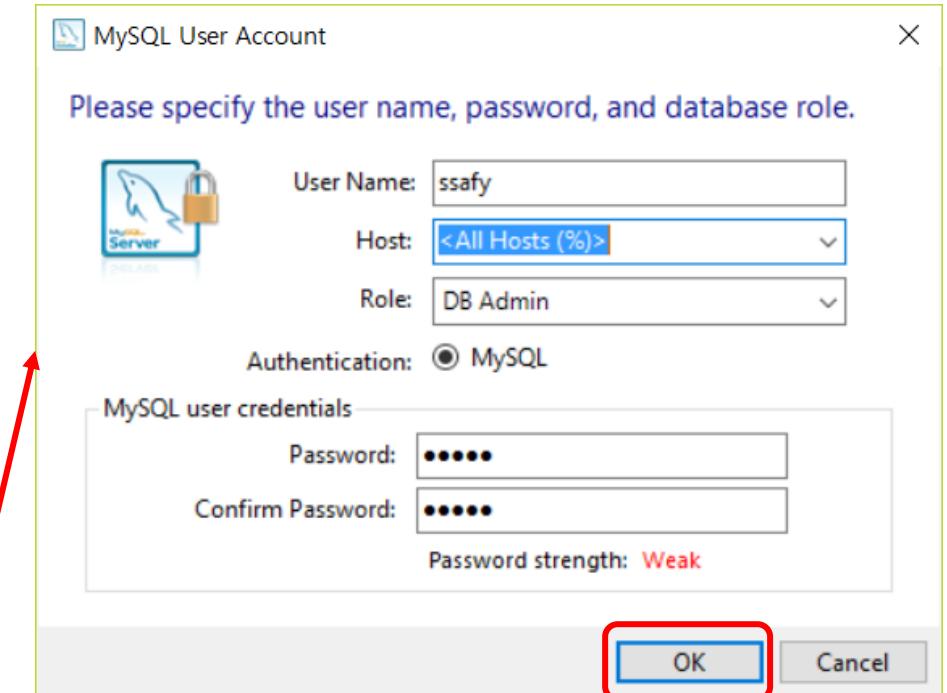
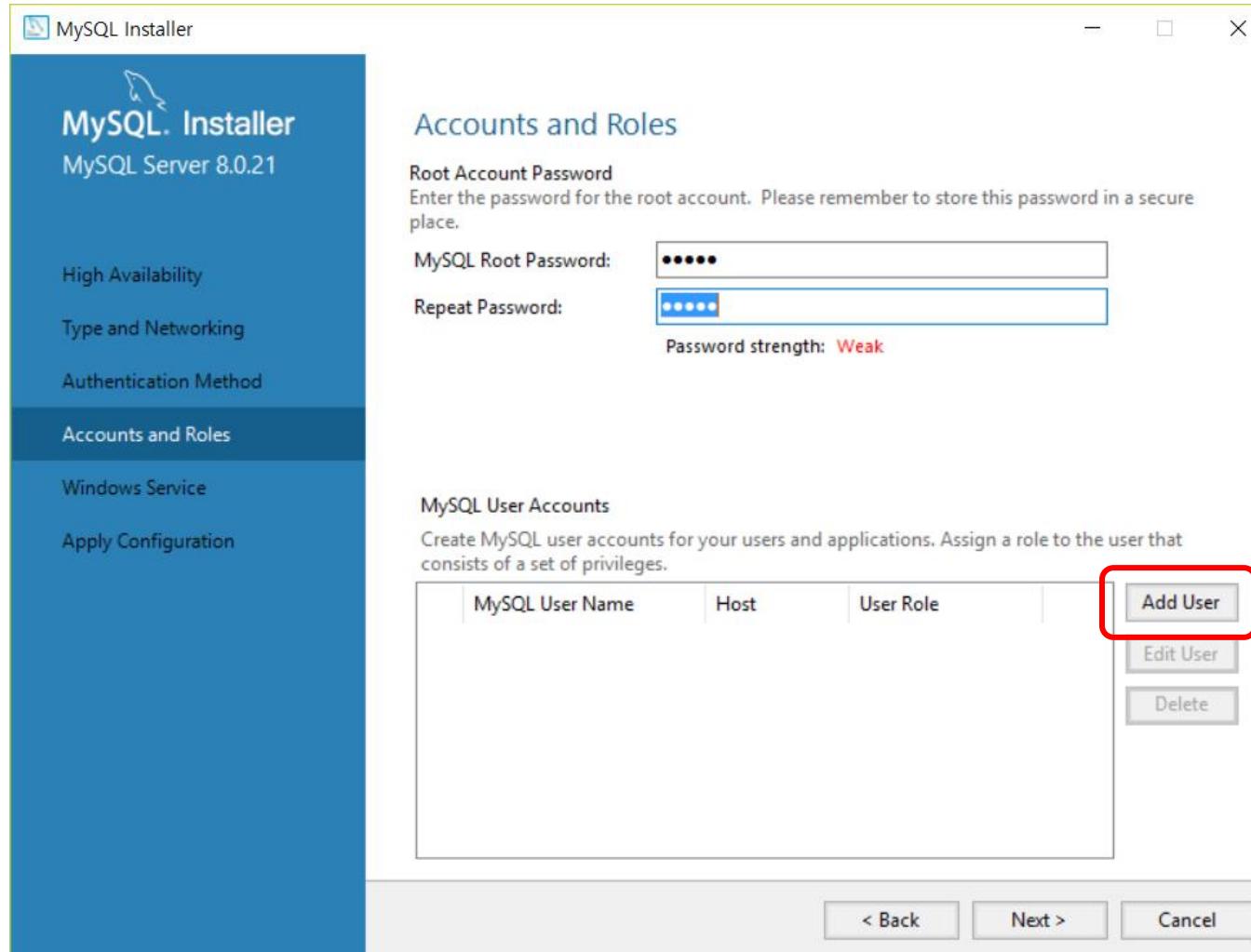


MySQL 설치

✓ MySQL 설치

- root 계정의 비번 설정 후 Add User를 이용하여 계정 추가.

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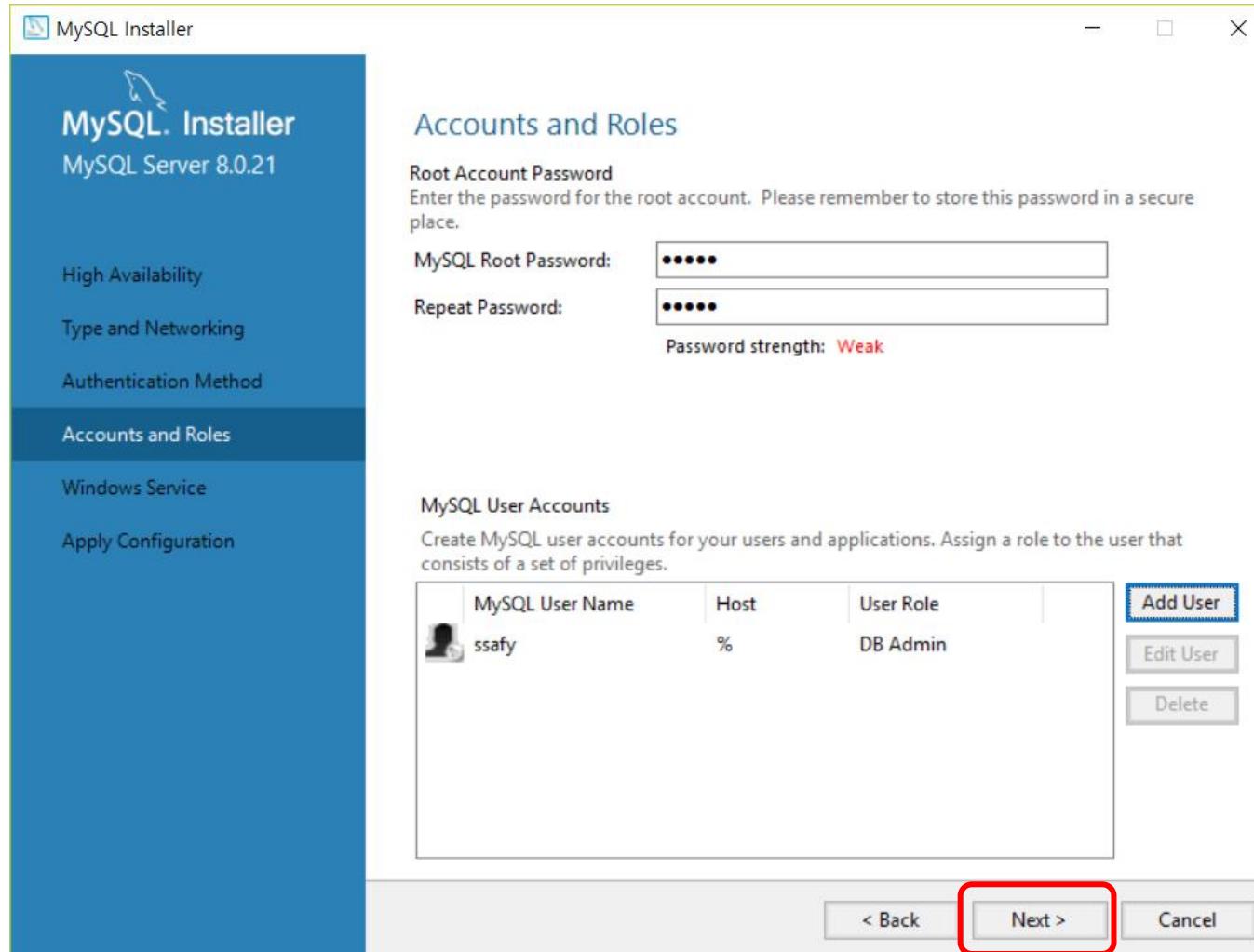
※ 계정 추가는 나중에 해도 된다.

MySQL 설치

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✓ MySQL 설치

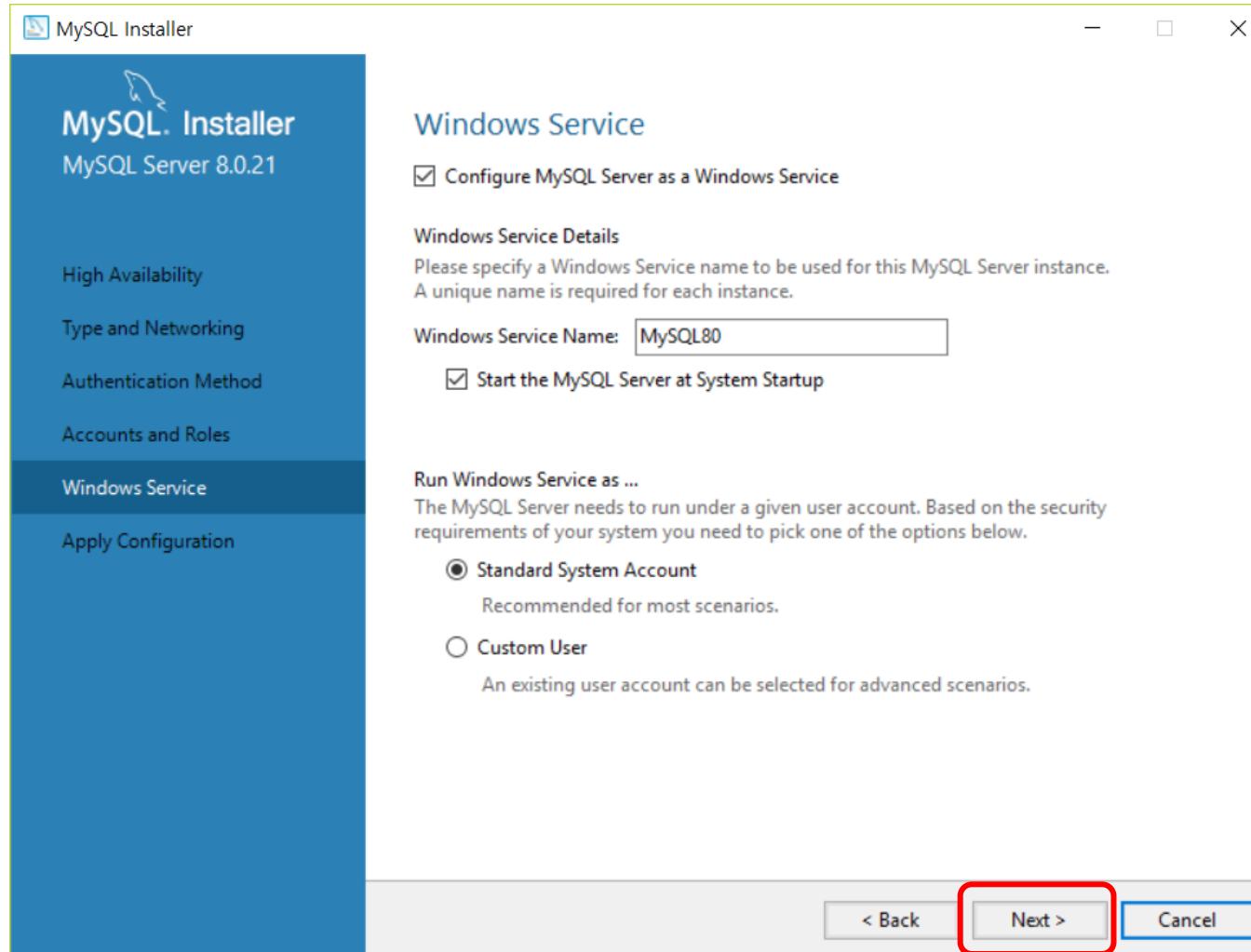
- 계정 추가 확인 후 Next click.



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✓ MySQL 설치

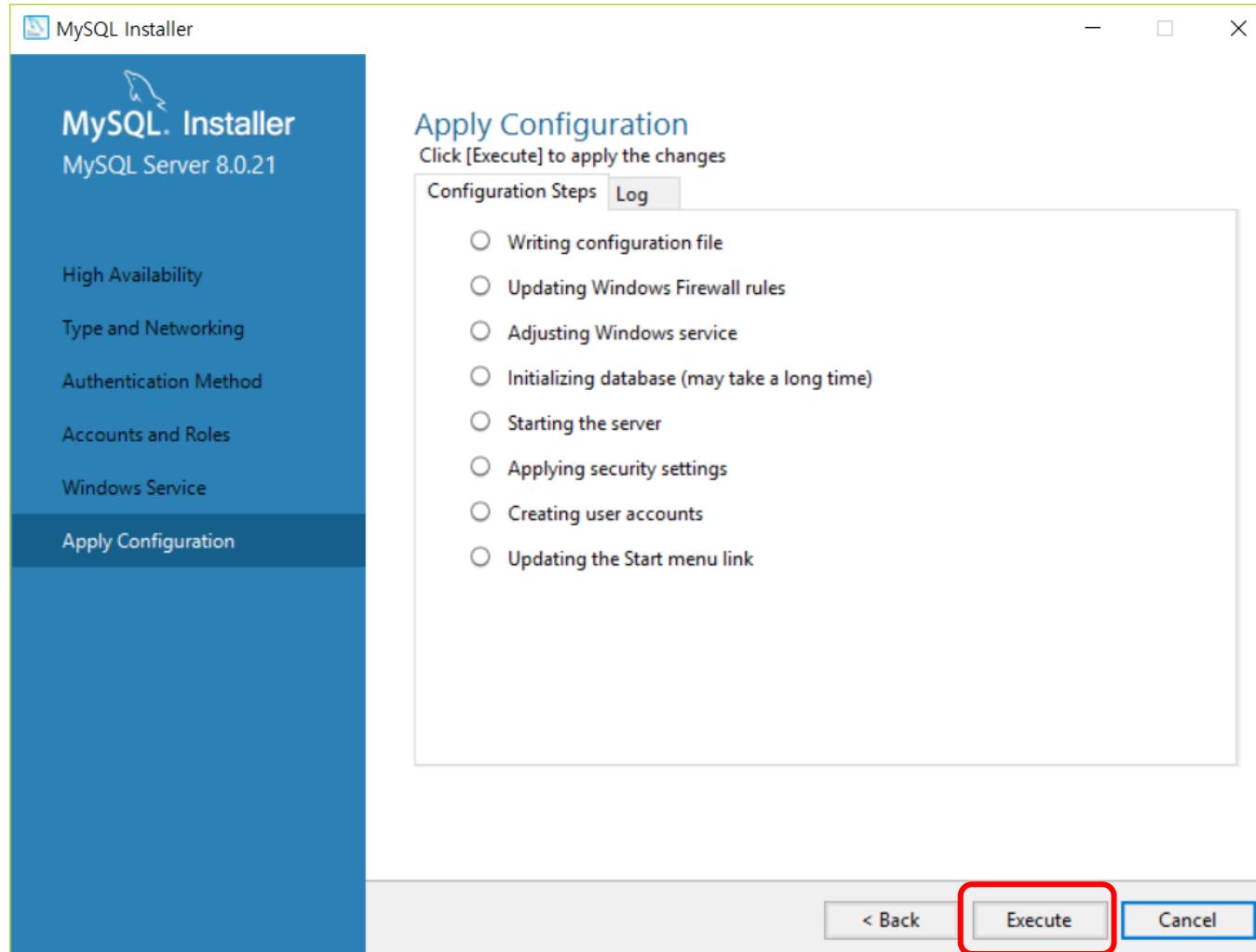
- window service name은 확인만. Next click.



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✓ MySQL 설치

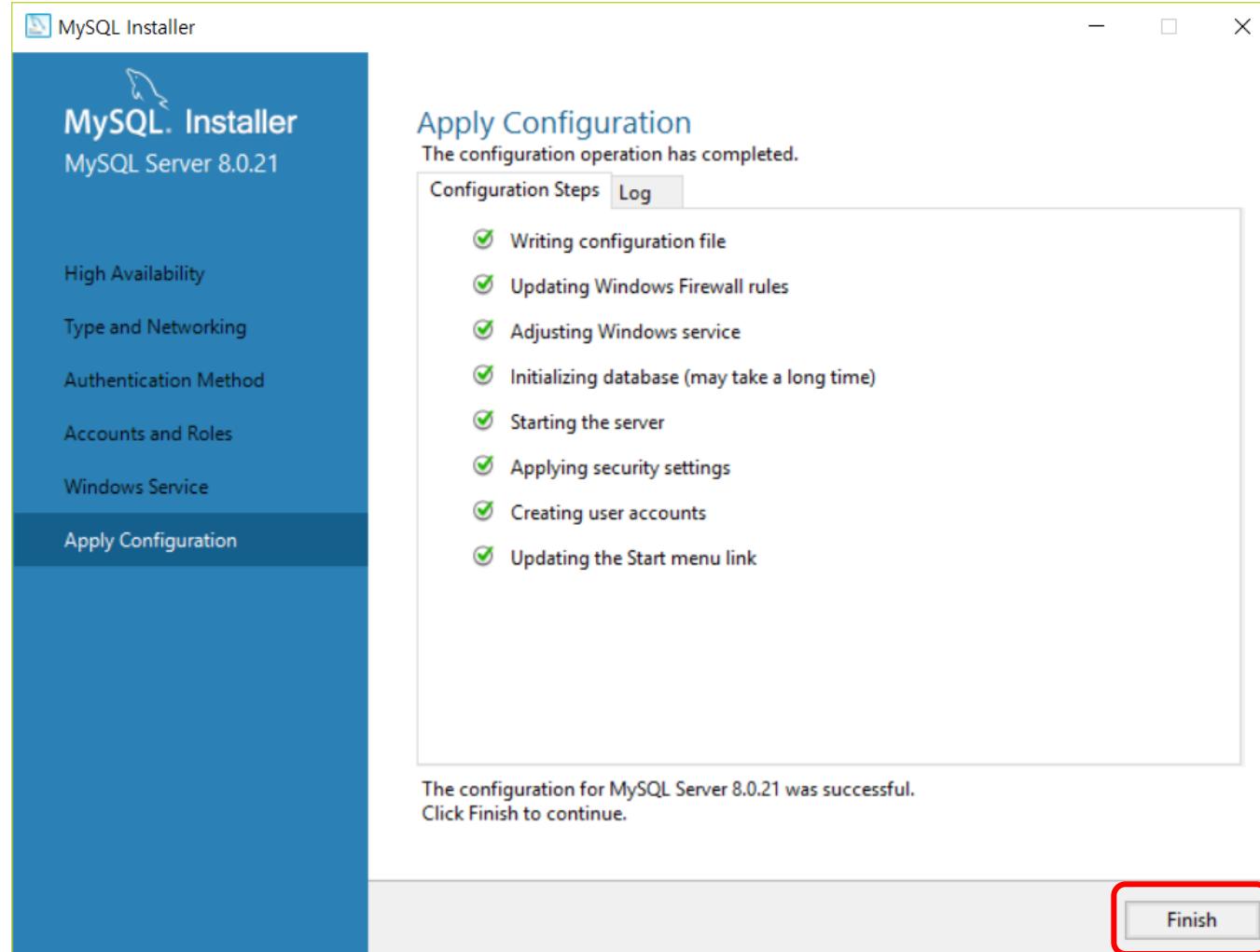
- Execute click.



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✓ MySQL 설치

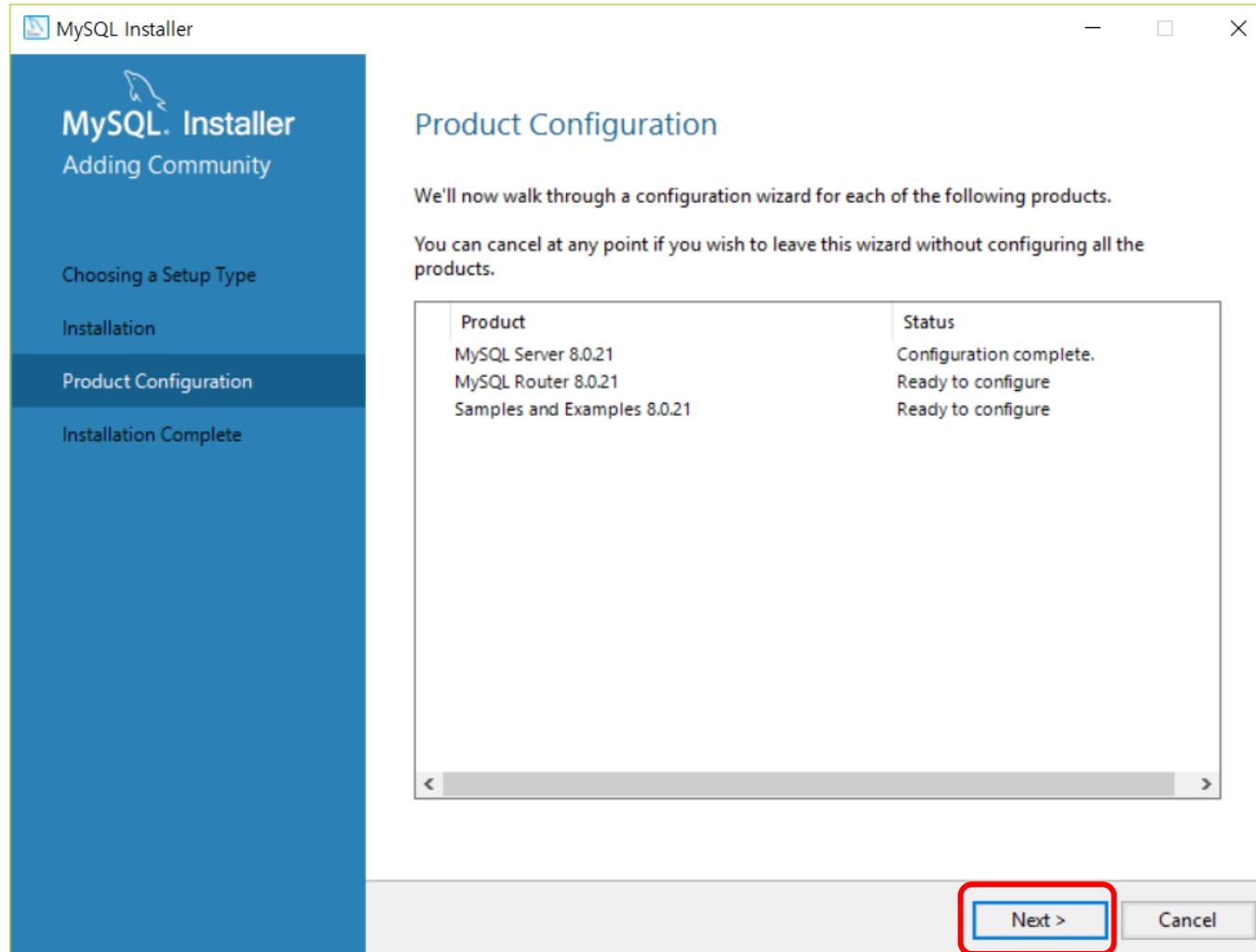
- Configuration completed 확인 후 Finish click.



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✓ MySQL 설치

- Next click.

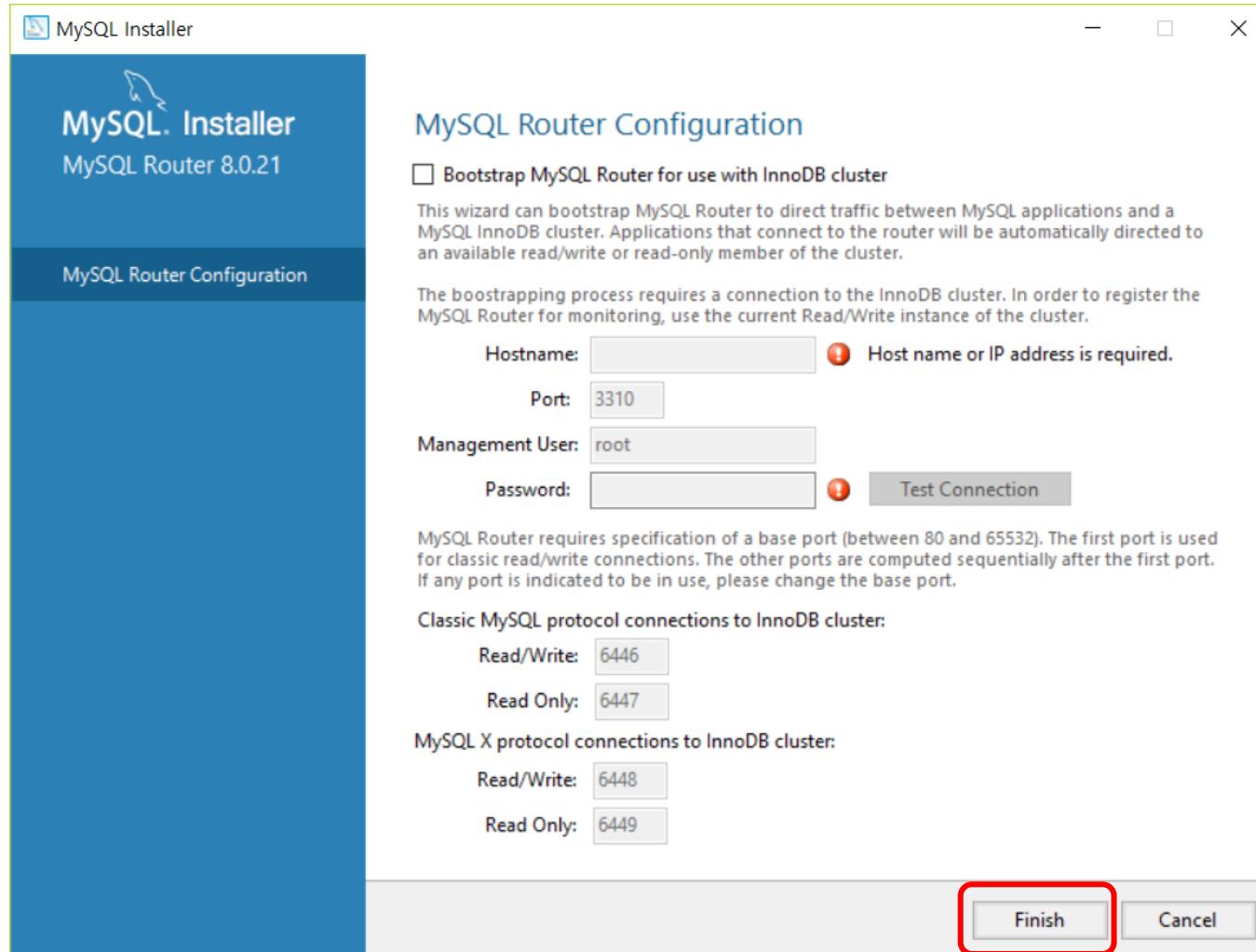


MySQL 설치

✓ MySQL 설치

- Finish click.

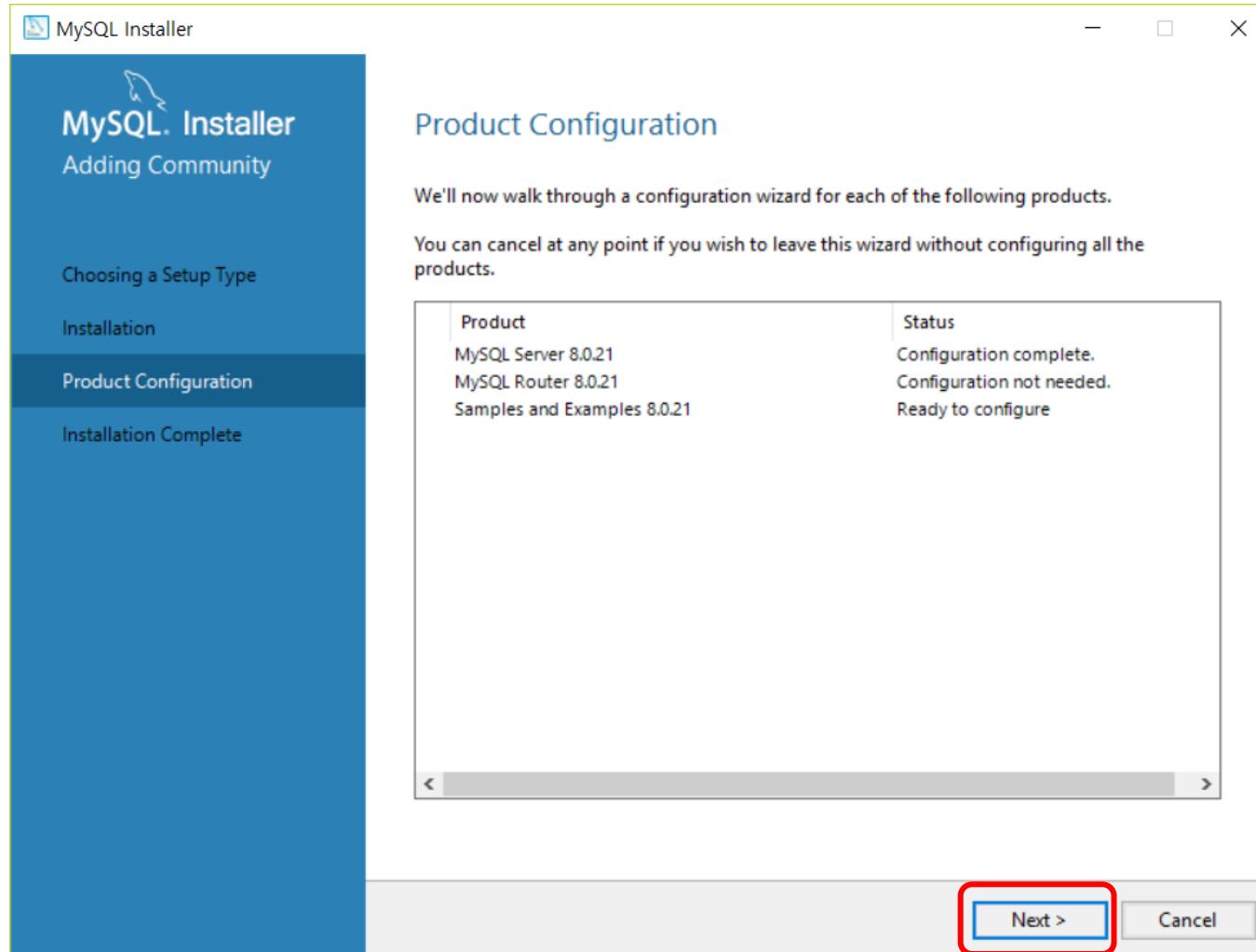
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✓ MySQL 설치

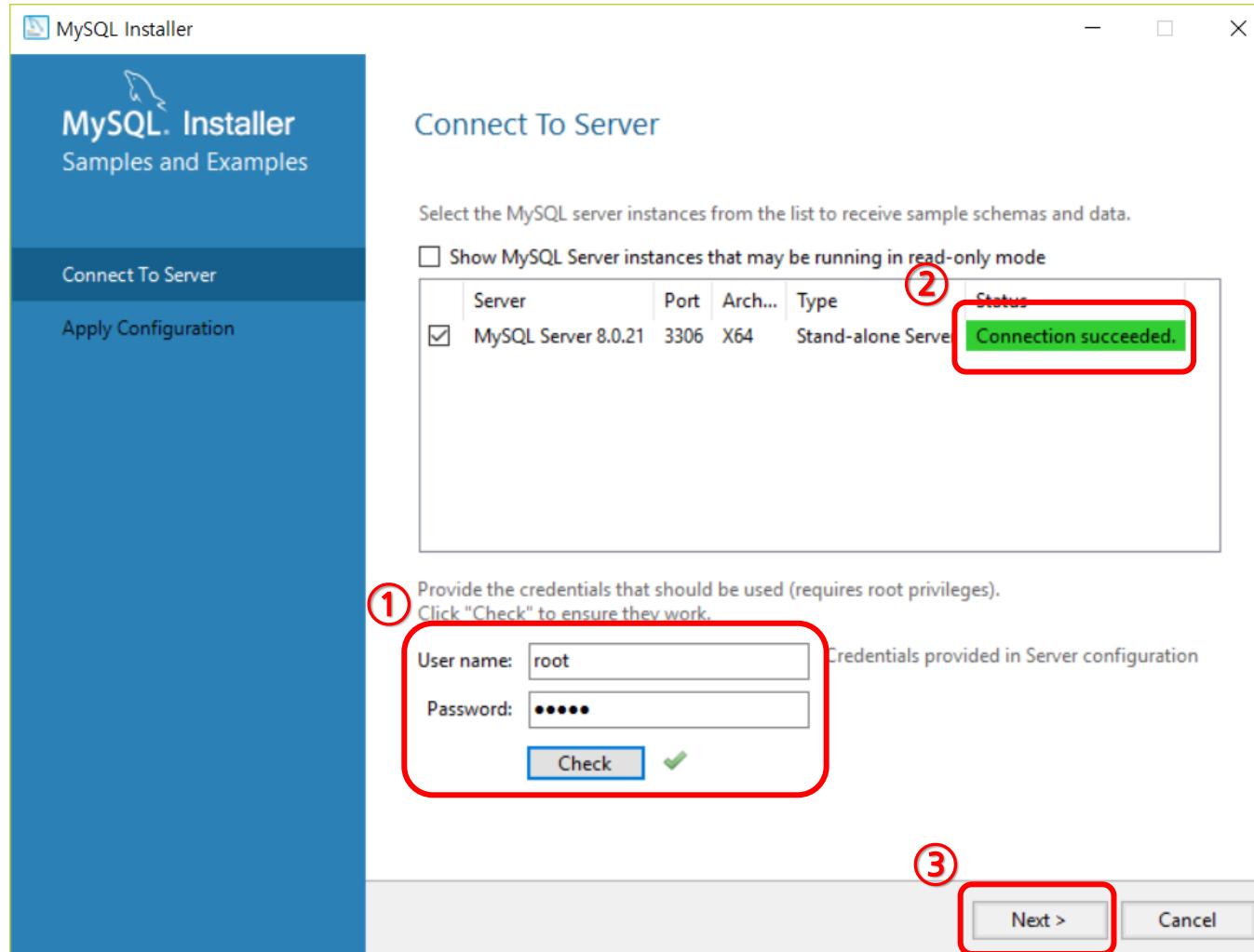
- Next click.



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✓ MySQL 설치

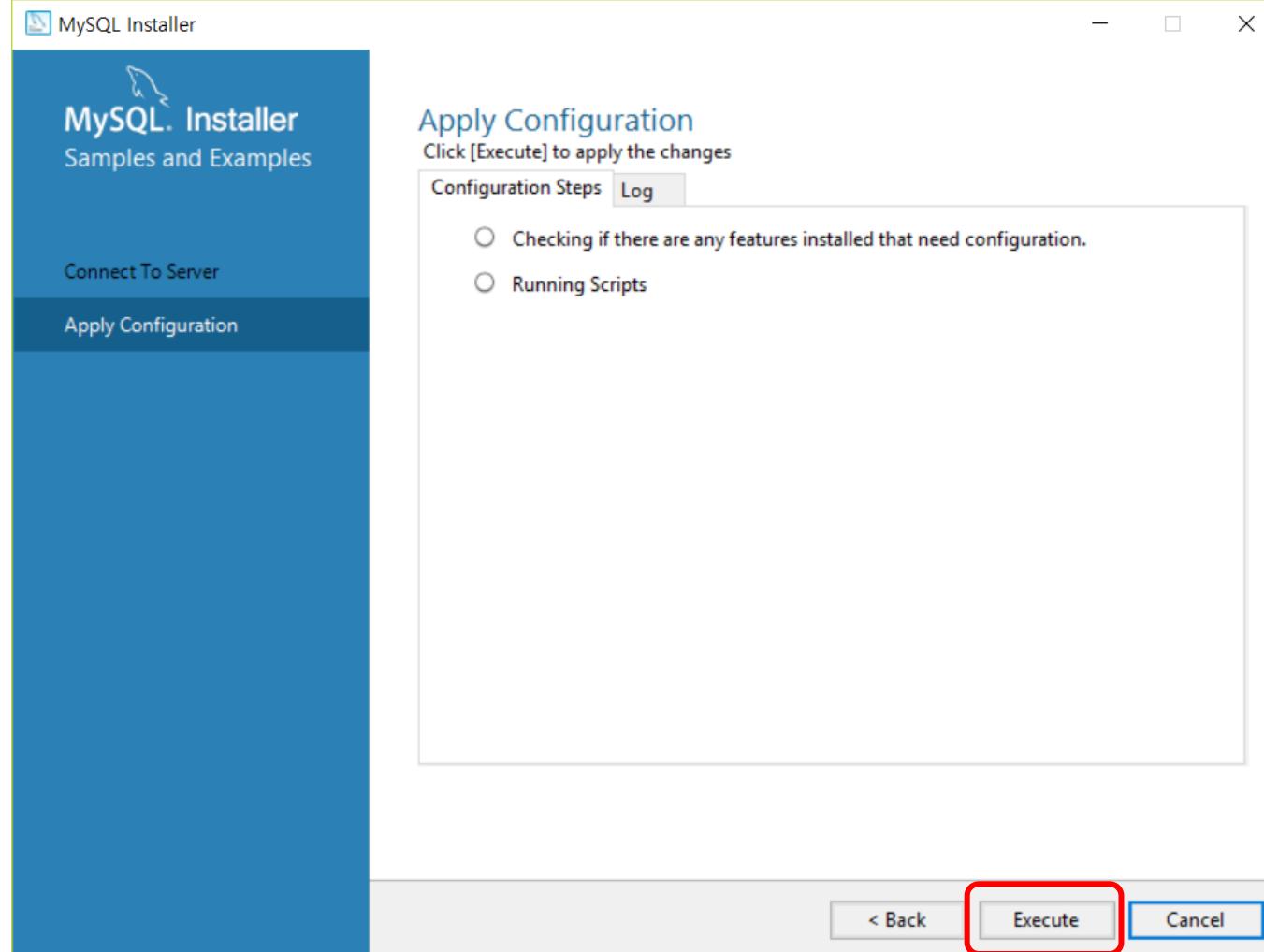
- 계정 입력 후 연결 성공 여부 확인 후 Next click.



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✓ MySQL 설치

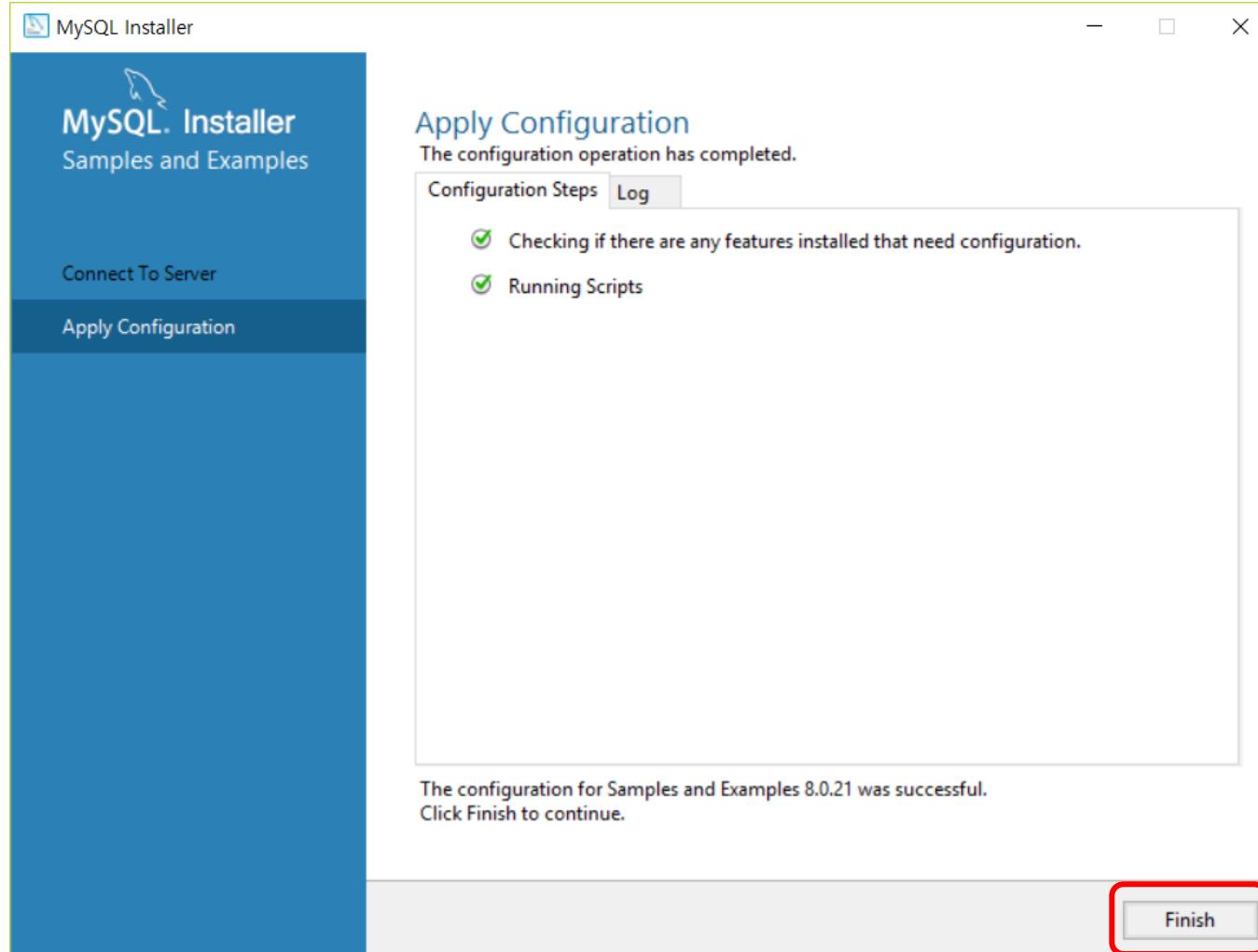
- Execute click.



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✓ MySQL 설치

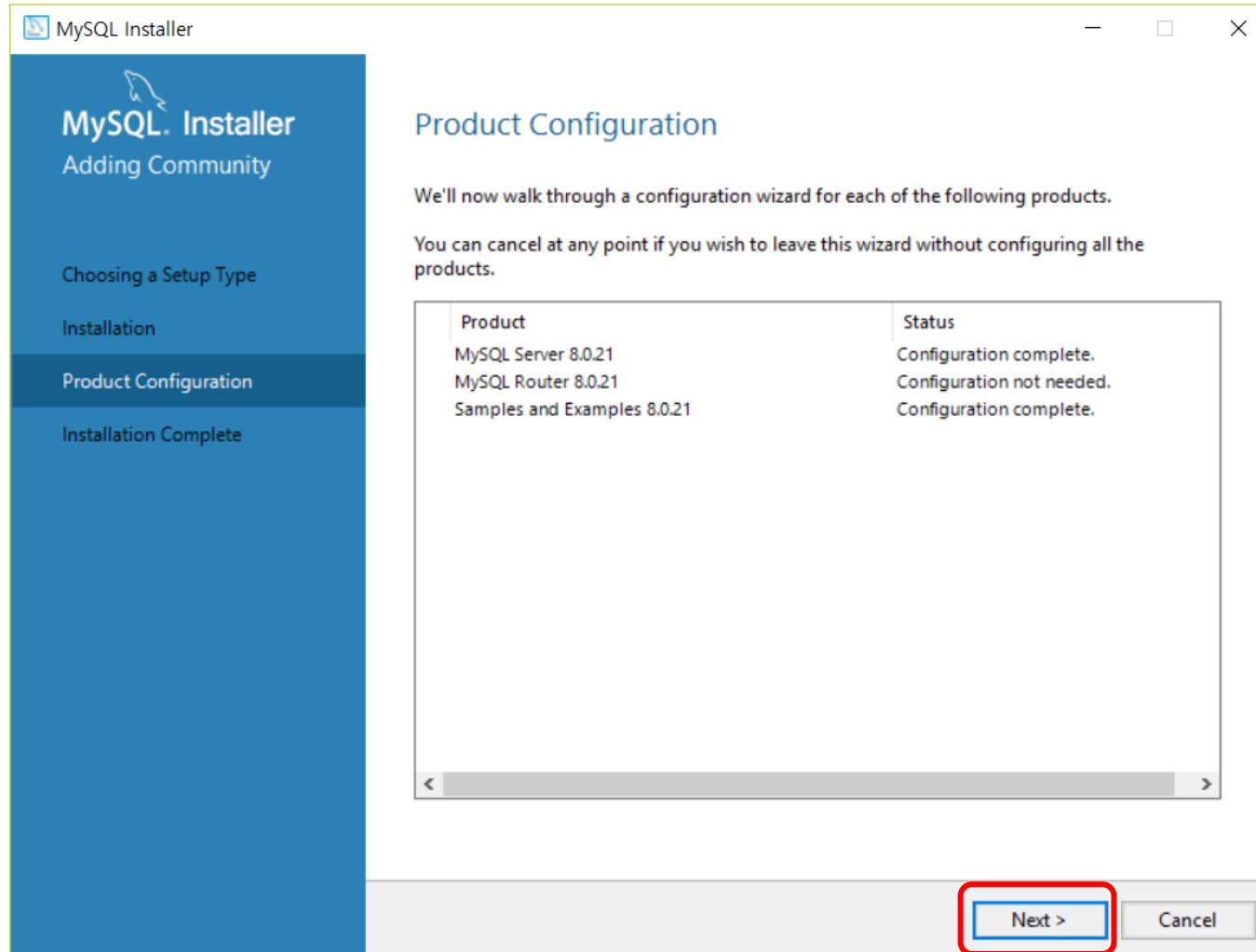
- Configuration completed 확인 후 Finish click.



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✓ MySQL 설치

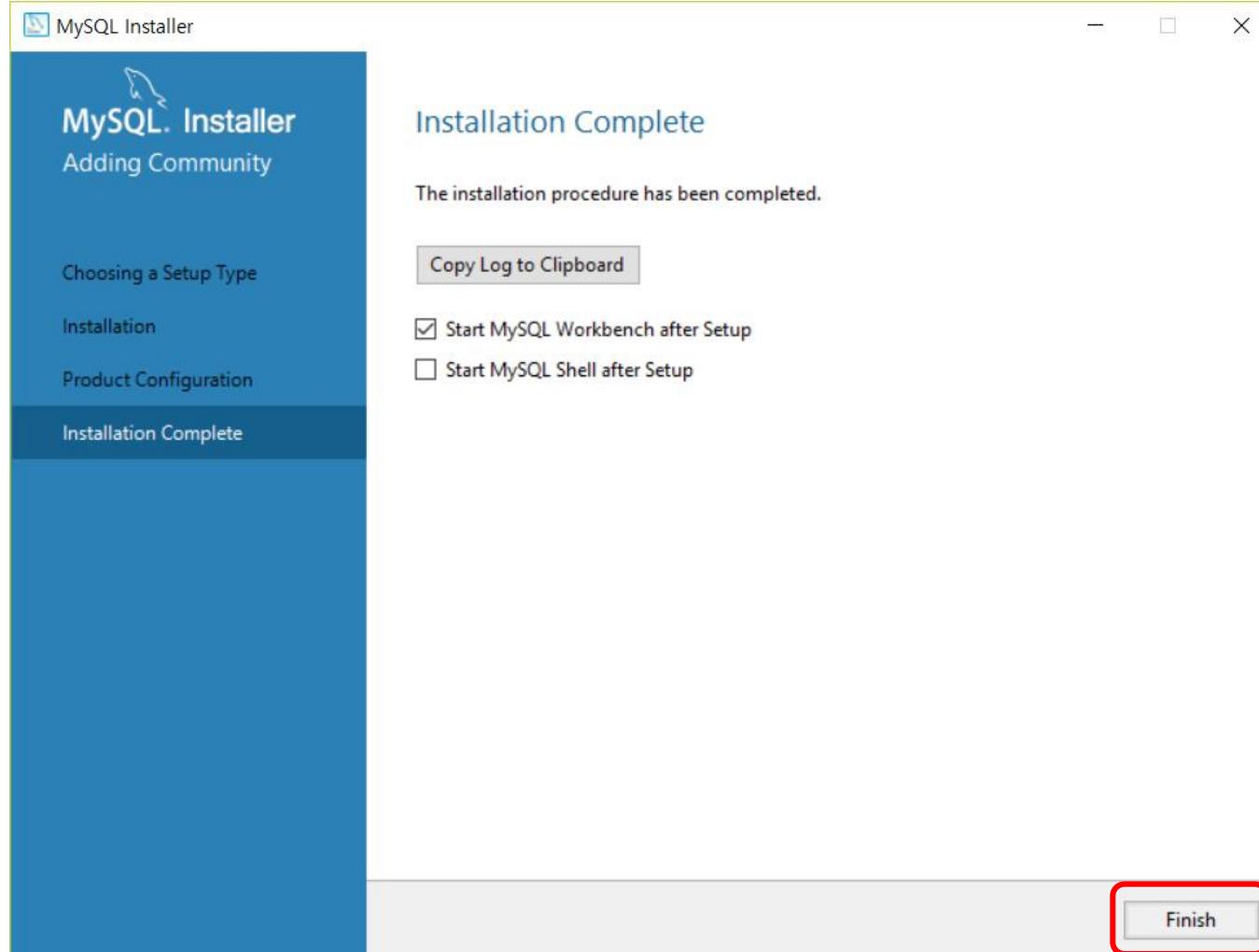
- Next click.



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✓ MySQL 설치

- Installation complete 확인 후 Finish click.

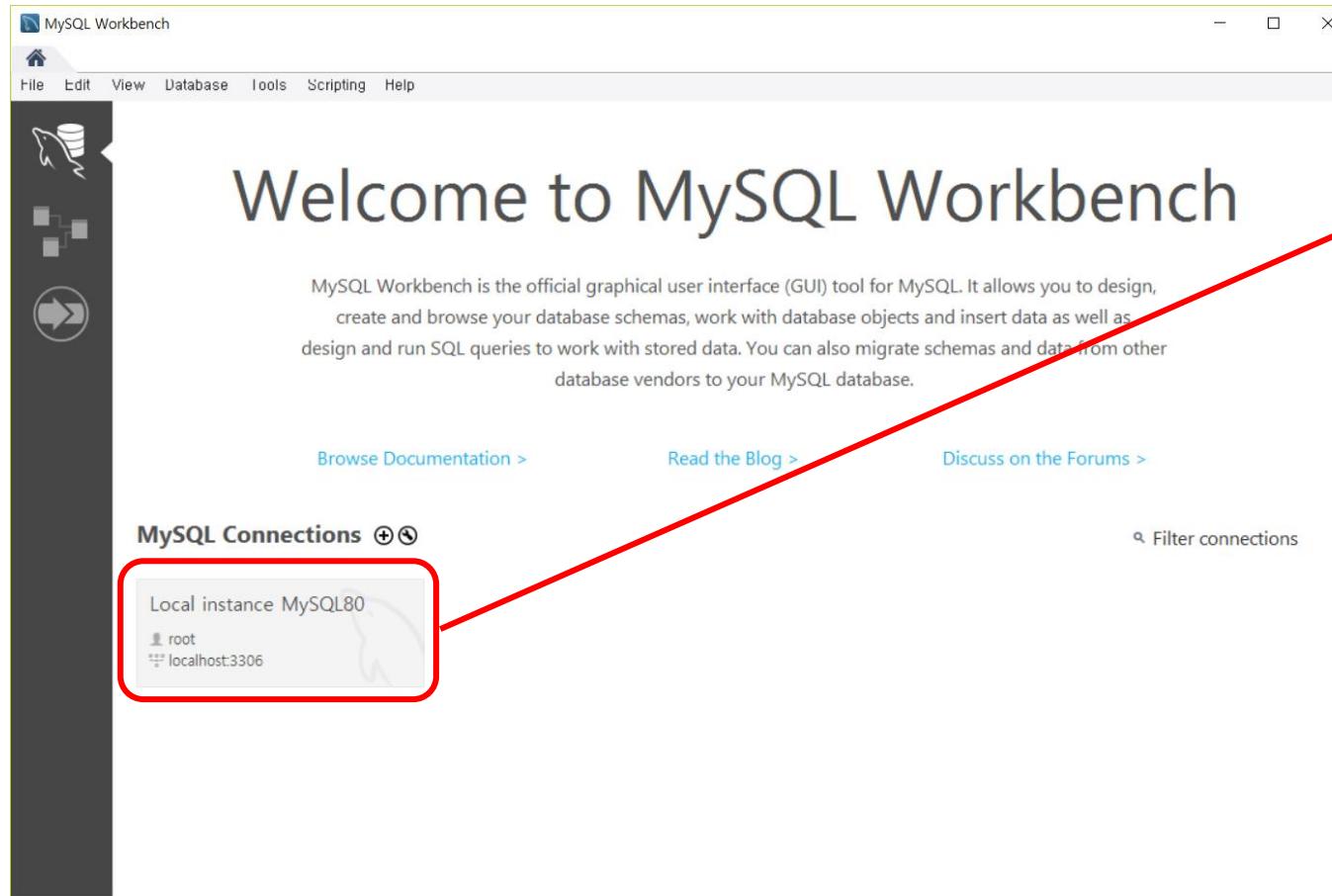


MySQL Workbench

MySQL Workbench

✓ MySQL Workbench

- root 계정으로 접속.

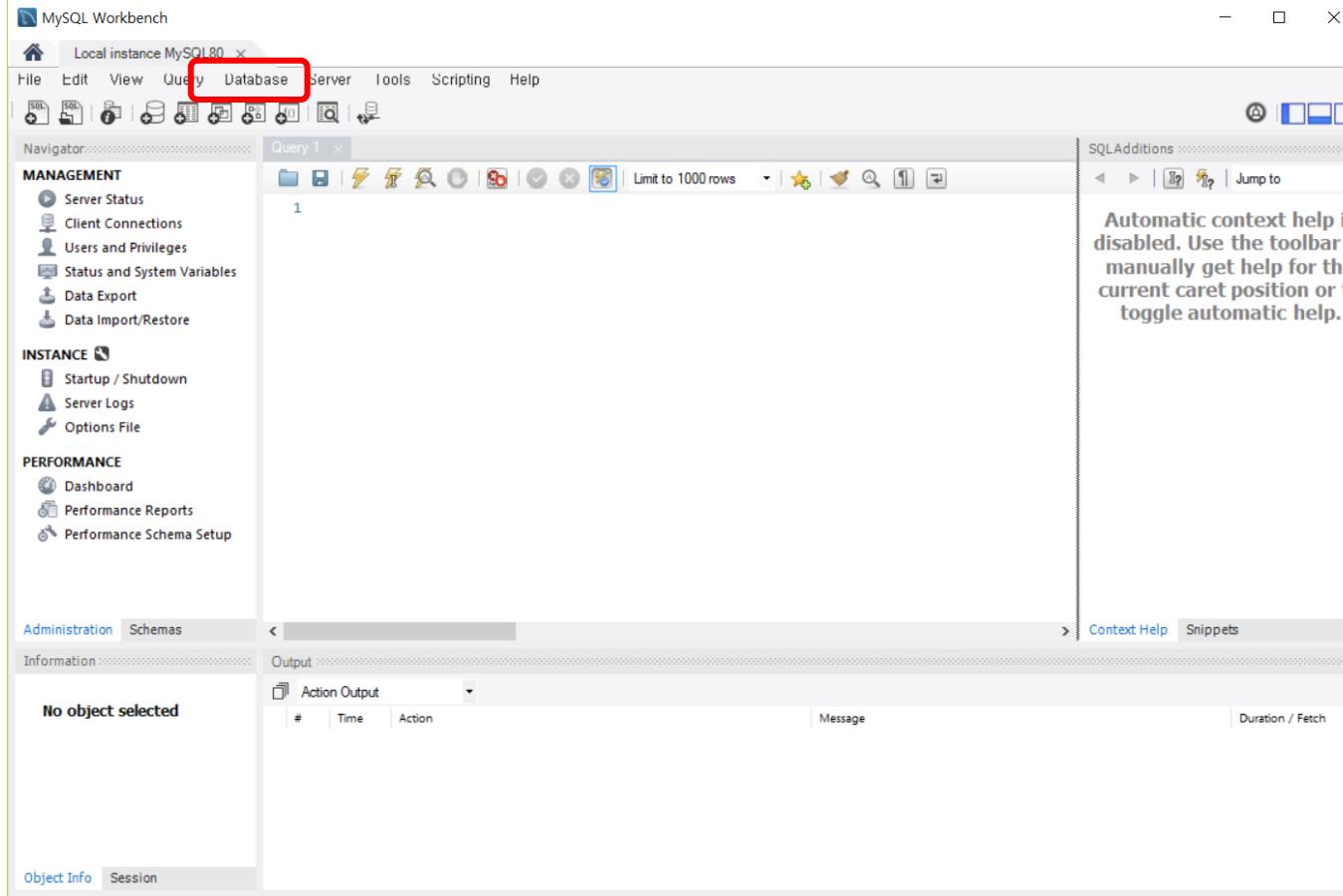


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✓ MySQL Workbench : 계정 변경

- 설치 시 생성한 ssafy 계정으로 접속 1.

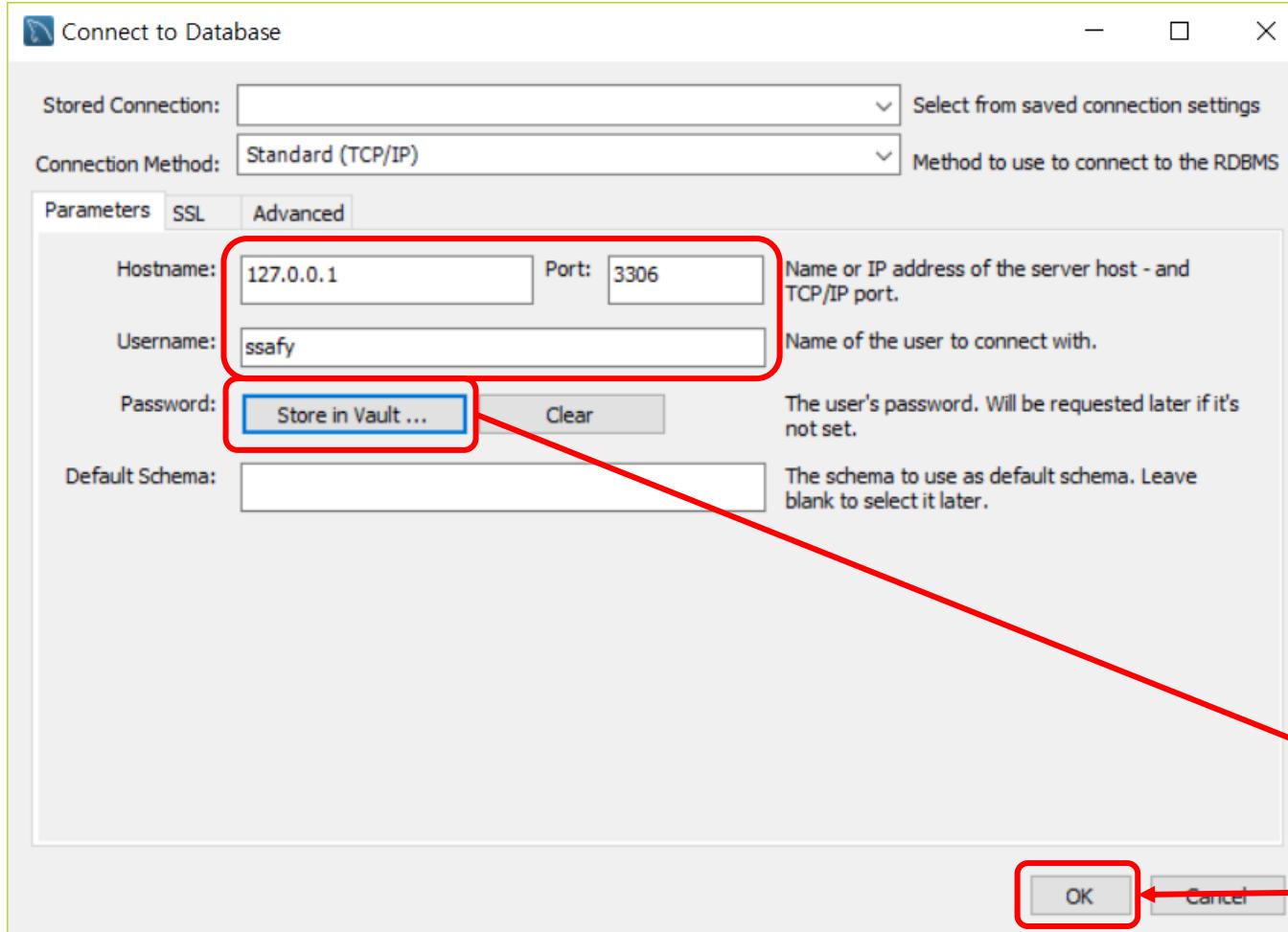


MySQL Workbench

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✓ MySQL Workbench : 계정 변경

- 설치 시 생성한 ssafy 계정으로 접속 2.

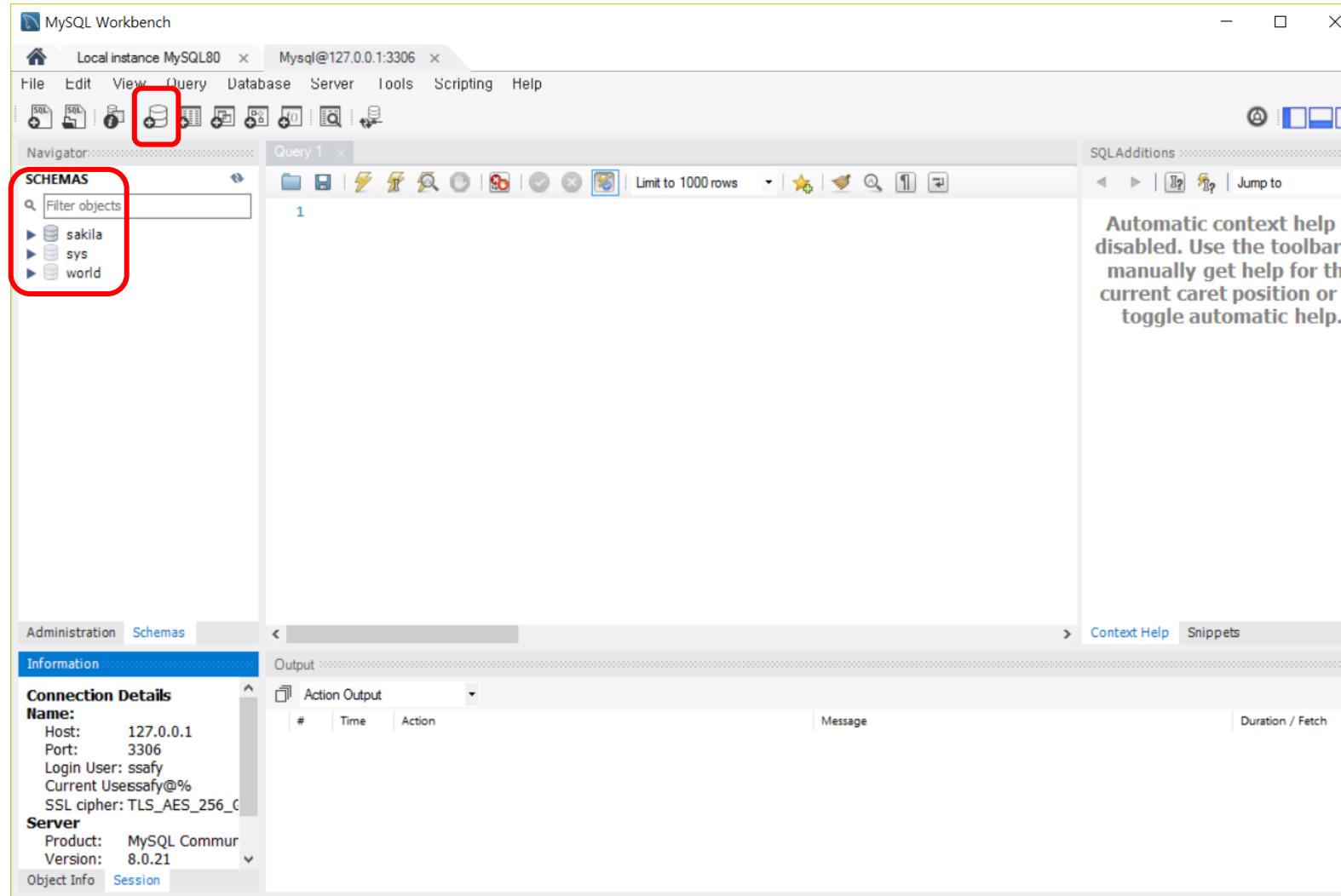


MySQL Workbench

✓ MySQL Workbench : Schema 생성

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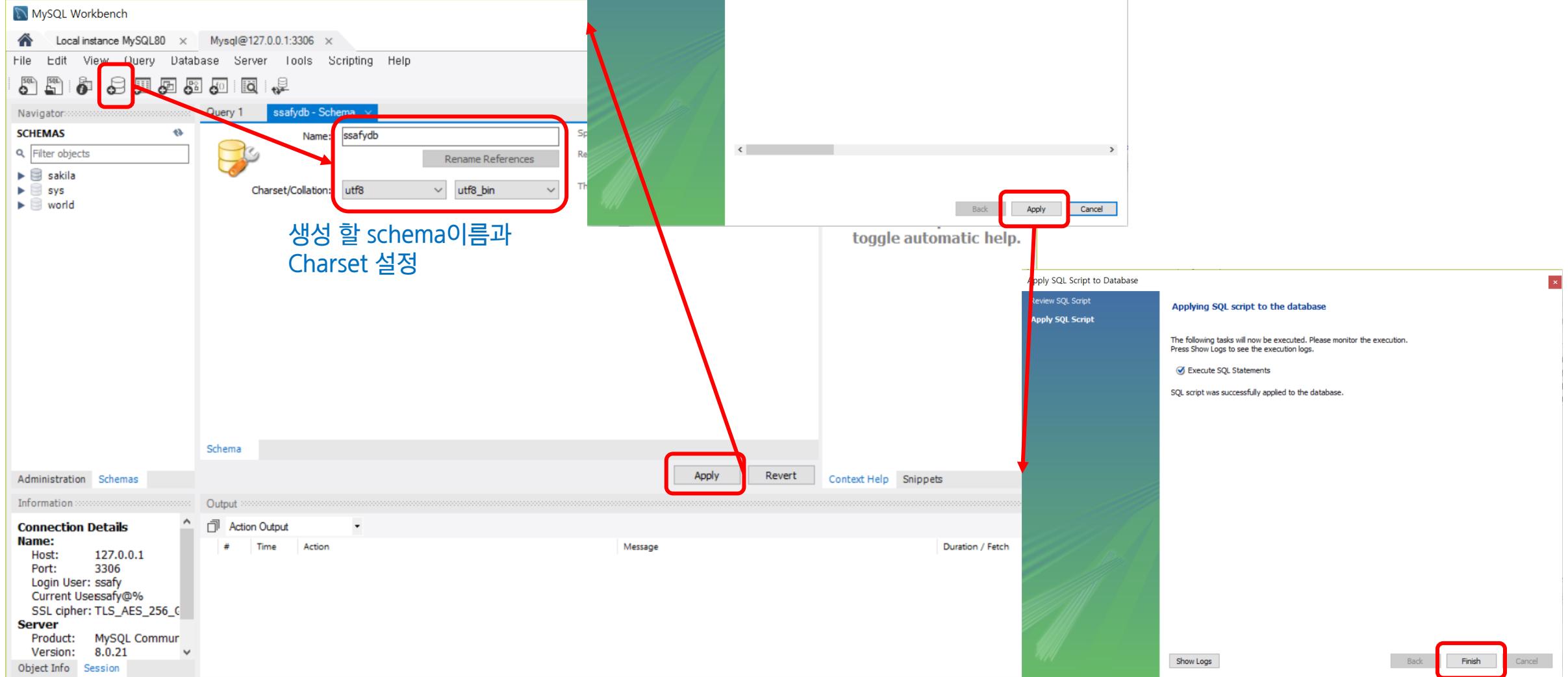
- Schema 생성 1.



MySQL Workbench

✓ MySQL Workbench : Schema 생성

- Schema 생성 2.

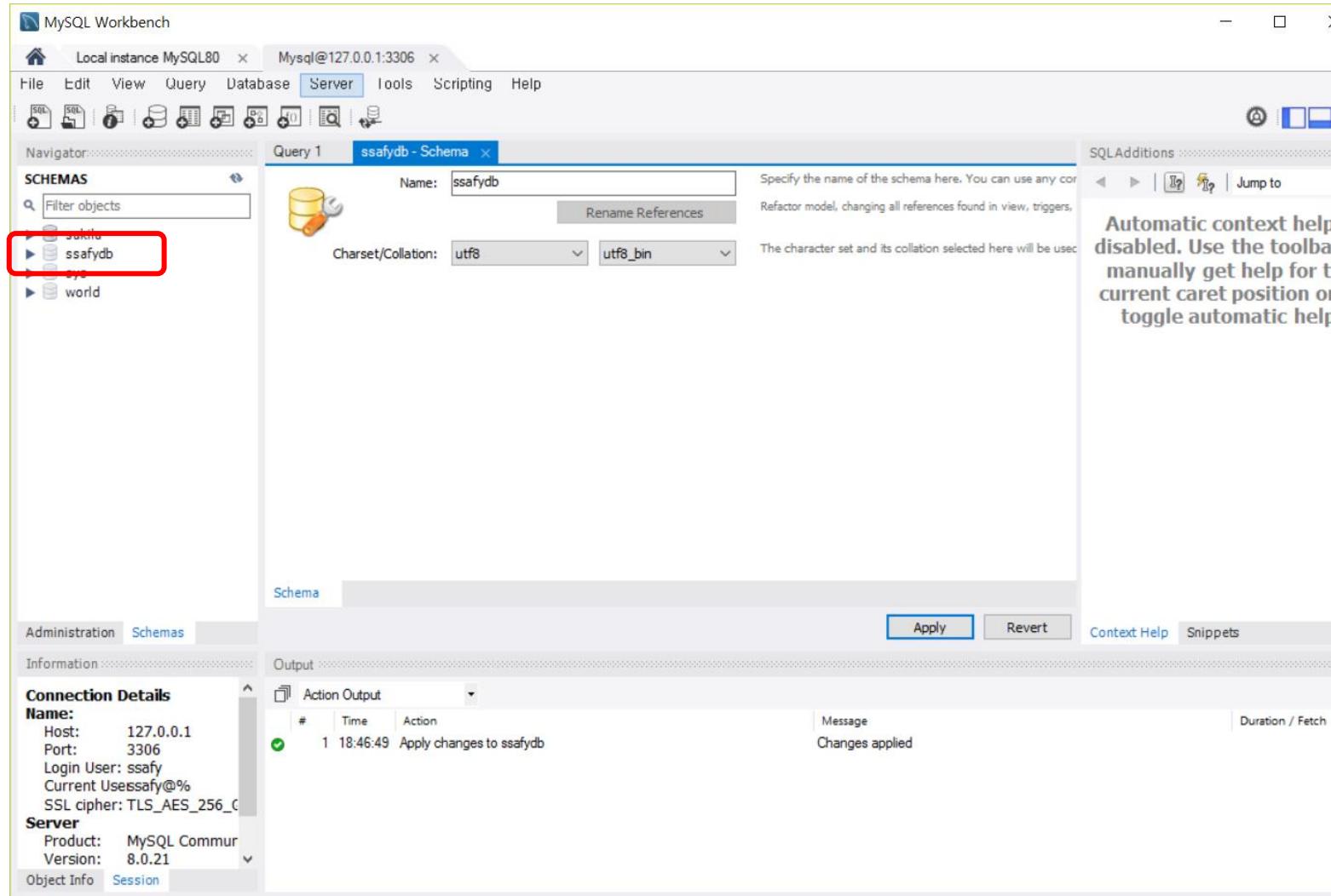


MySQL Workbench

✓ MySQL Workbench : Schema 생성

- Schema 생성 3 : ssafydb 생성 확인.

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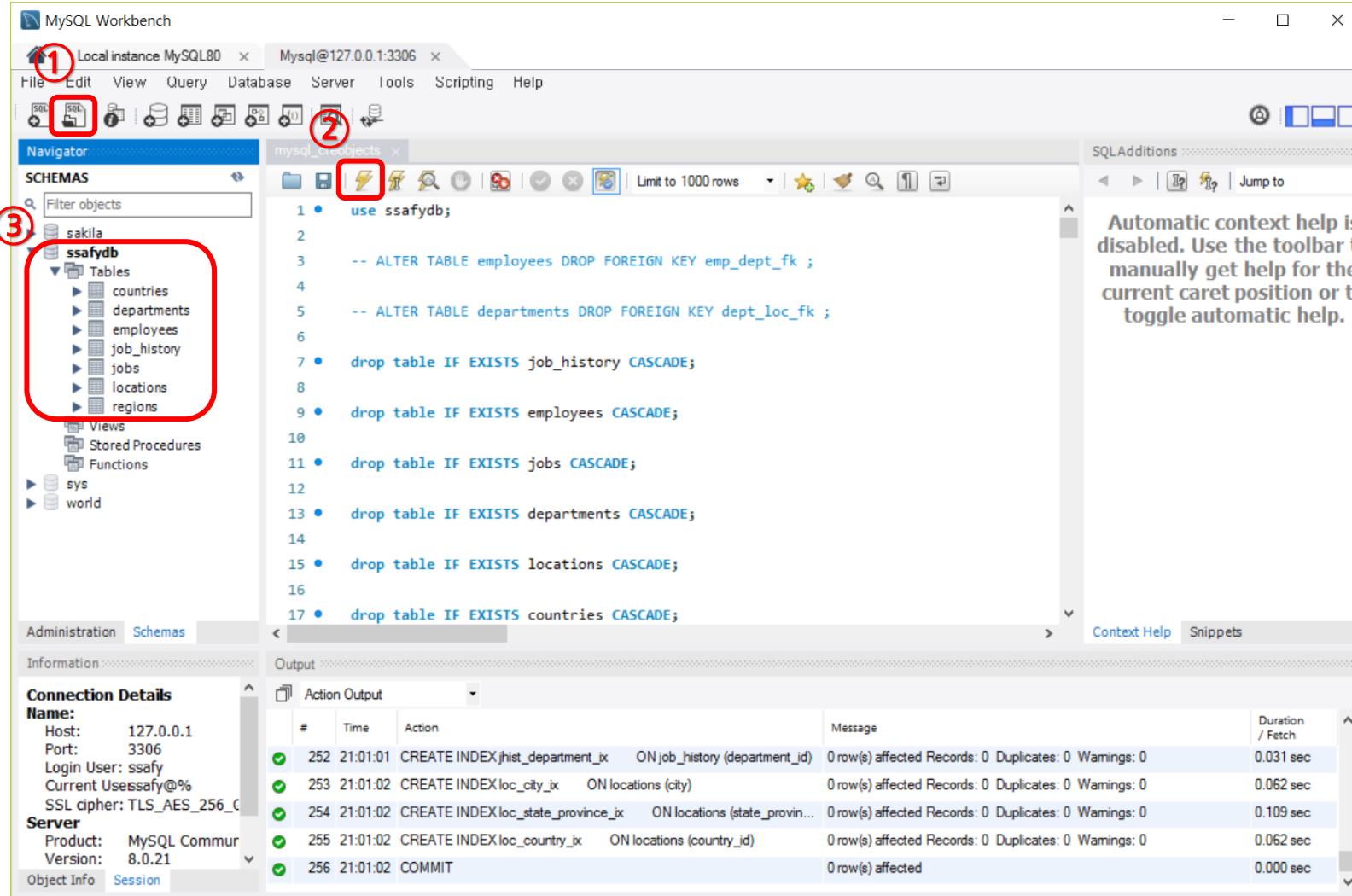


MySQL Workbench

✓ MySQL Workbench : Script 실행

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- 생성한 ssafydb에 script file을 이용한 table 및 data 추가.



①. Open a script SQL file click 후 제공된 mysql_creobjects.sql 파일을 선택.



②. Execute the selected portion… 을 click 하여 script file 을 실행.

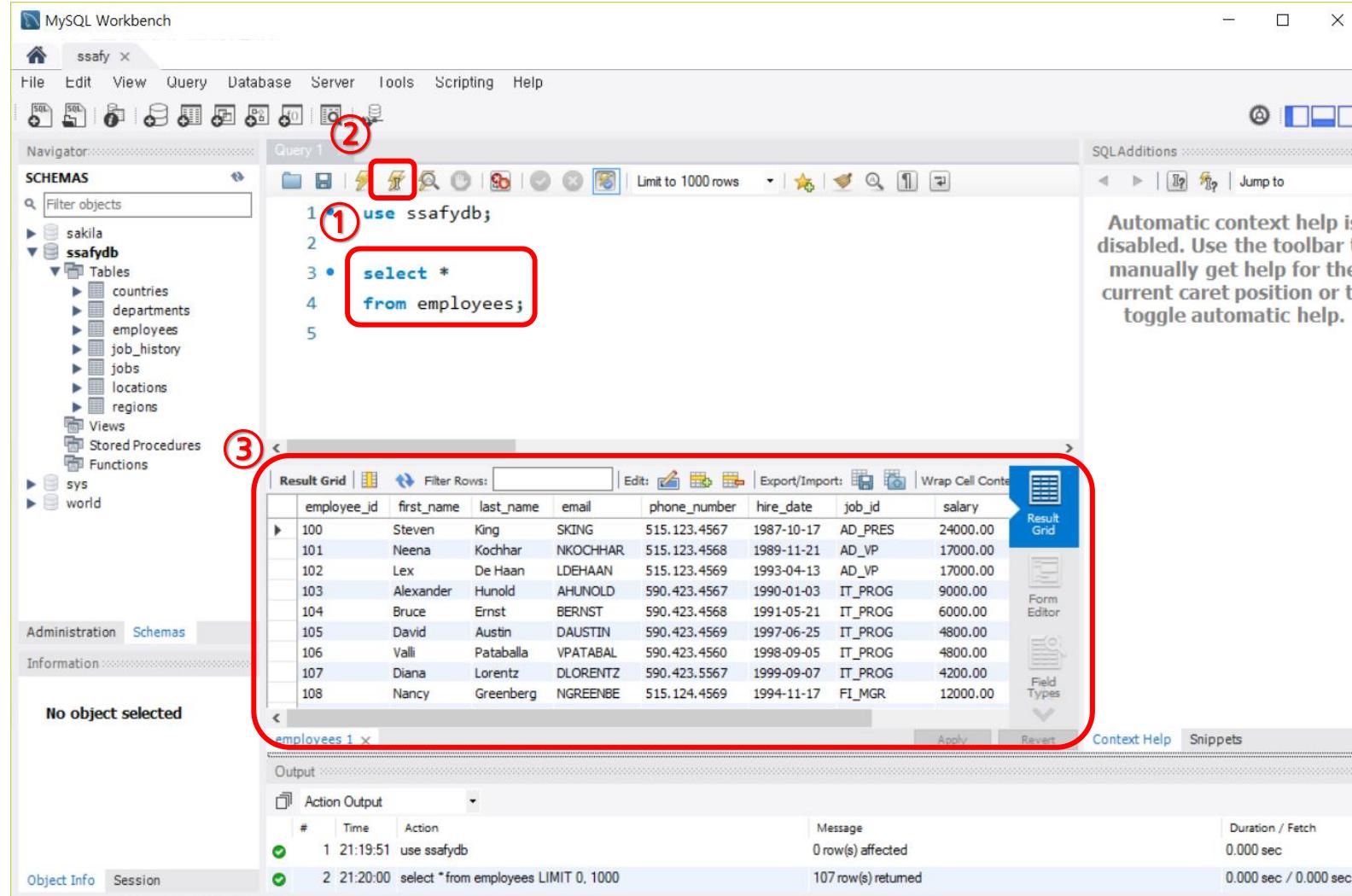


③. SCHEMAS Navigator에서 table 생성 확인.

MySQL 라이브 방송_코딩

✓ MySQL Workbench

- script file 정상 실행 확인.



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①. select * from employees;
SQL Editor에 Query 작성.



②. Execute the statement
under … 을 click 하여 Query문을
실행.



③. Resultset Grid에 출력 결과 확인.

MySQL 참고

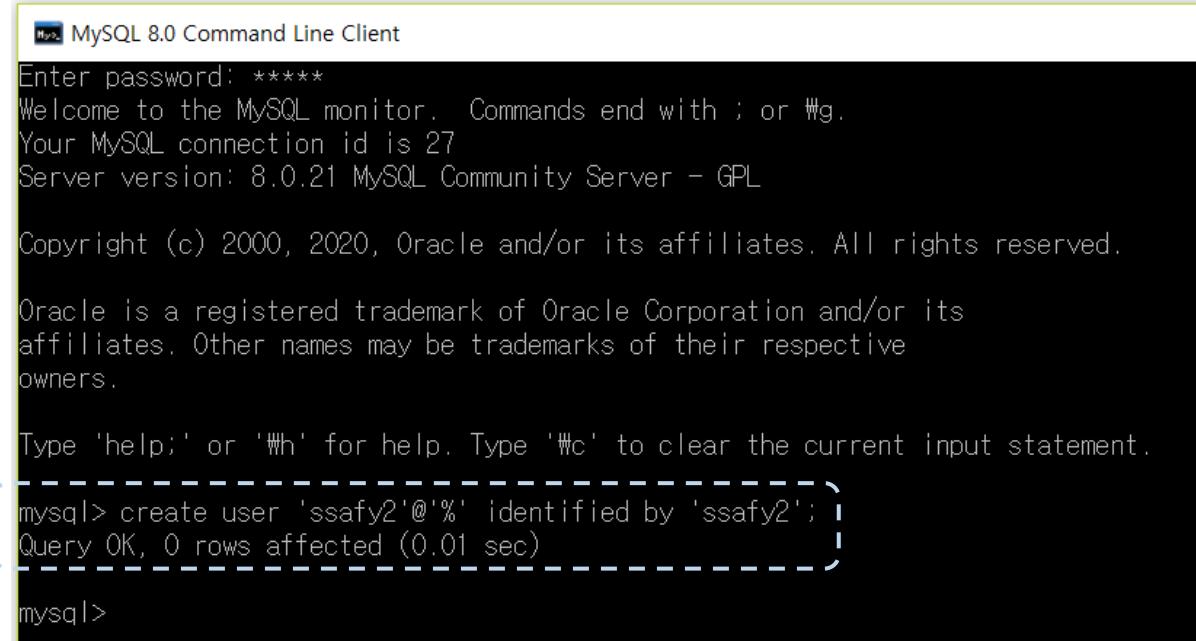
MySQL 라이브 방송_코딩

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✓ MySQL 계정 생성.

- 계정 생성 : create user
 > **create user '사용자아이디'@'외부접속정보' identified by '비밀번호';**

- 특정 아이피에서만 접속 가능.
 > **create user 'ssafy'@'211.183.1.152' identified by 'ssafy';**
- 모든 아이피 접속 가능.
 > **create user 'ssafy'@'%' identified by 'ssafy';**



MySQL 8.0 Command Line Client

```
Enter password: *****
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 27
Server version: 8.0.21 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create user 'ssafy2'@'%' identified by 'ssafy2';
Query OK, 0 rows affected (0.01 sec)

mysql>
```

✓ MySQL 권한 설정.

- 권한 설정 : grant
 - > grant 권한목록 on 데이터베이스.객체 to '사용자아이디'@'외부접속정보';
 - > [with grant option];
 - > 권한을 부여 받은 사용자도 부여 받은 권한을 다른 사용자 또는 룰로 부여할 수 있게 된다.
- ssafy 사용자에게 ssafydb데이터베이스의 emp 객체에 권한 부여
 - > grant select, insert, delete, update on ssafydb.emp to 'ssafy'@'%';
- 모든 데이터베이스에 대해서 루트와 동일 권한 부여
 - > grant all privileges on *.* to 'ssafy'@'%' with grant option;
- 설정한 권한이 바로 적용되도록 실행(적용이 안되는 경우)
 - > flush privileges;

MySQL 라이브 방송_코딩

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✓ MySQL 권한 확인 및 해제.

- 권한 확인 : show grants

> **show grants;**

- 권한 해제 : revoke

> **revoke 권한목록 on 데이터베이스.객체 from '사용자아이디';**

- ssafy 사용자에게 부여했던 ssafyDB데이터베이스의 emp 객체에 권한을 회수

> **revoke select, insert, delete, update on 'ssafyDB'.'emp' from 'ssafy';**

- 모든 데이터베이스의 부여된 권한을 모두 회수한다.

> **revoke all on *.* from 'ssafy';**

✓ MySQL 계정 삭제.

- 계정 삭제 : drop user
 > **drop user '사용자아이디';**
- 'ssafy' 계정 삭제
 > **drop user 'ssafy';**

※ 참고 :

설치한 툴에서 unable to load authentication plugin 'caching_sha2_password'. 에러가 발생한 경우
MySQL 8.0.4부터 MySQL 서버의 기본 인증 플러그인이 mysql_native_password에서 caching_sha2_password로 변경
되었기 때문이다.

해결 :

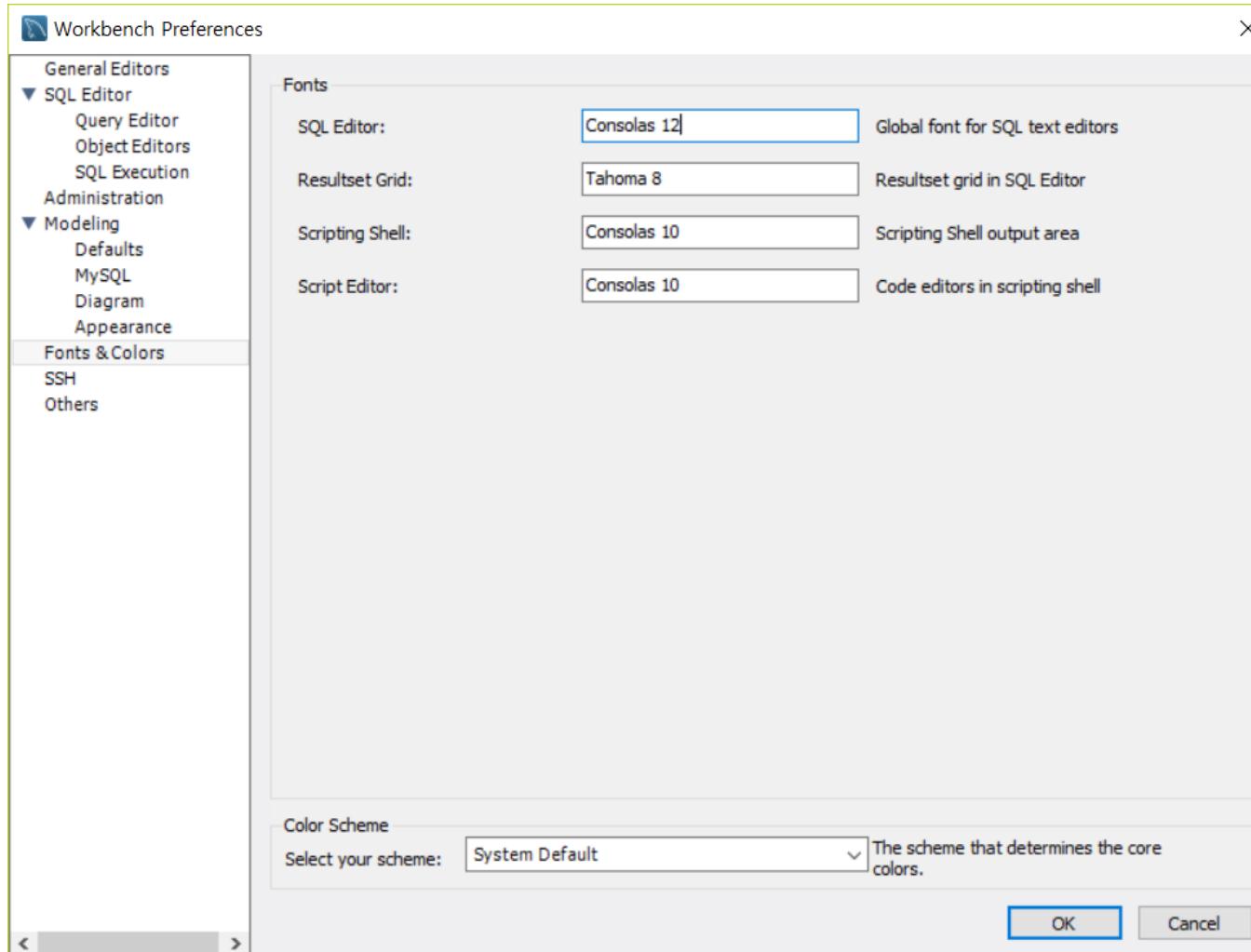
```
ALTER USER 'ssafy'@'%' IDENTIFIED WITH mysql_native_password BY 'ssafy';
```

MySQL 라이브 방송_코딩

✓ MySQL Workbench : 글꼴 설정

Editor font setting : Edit >> Preferences

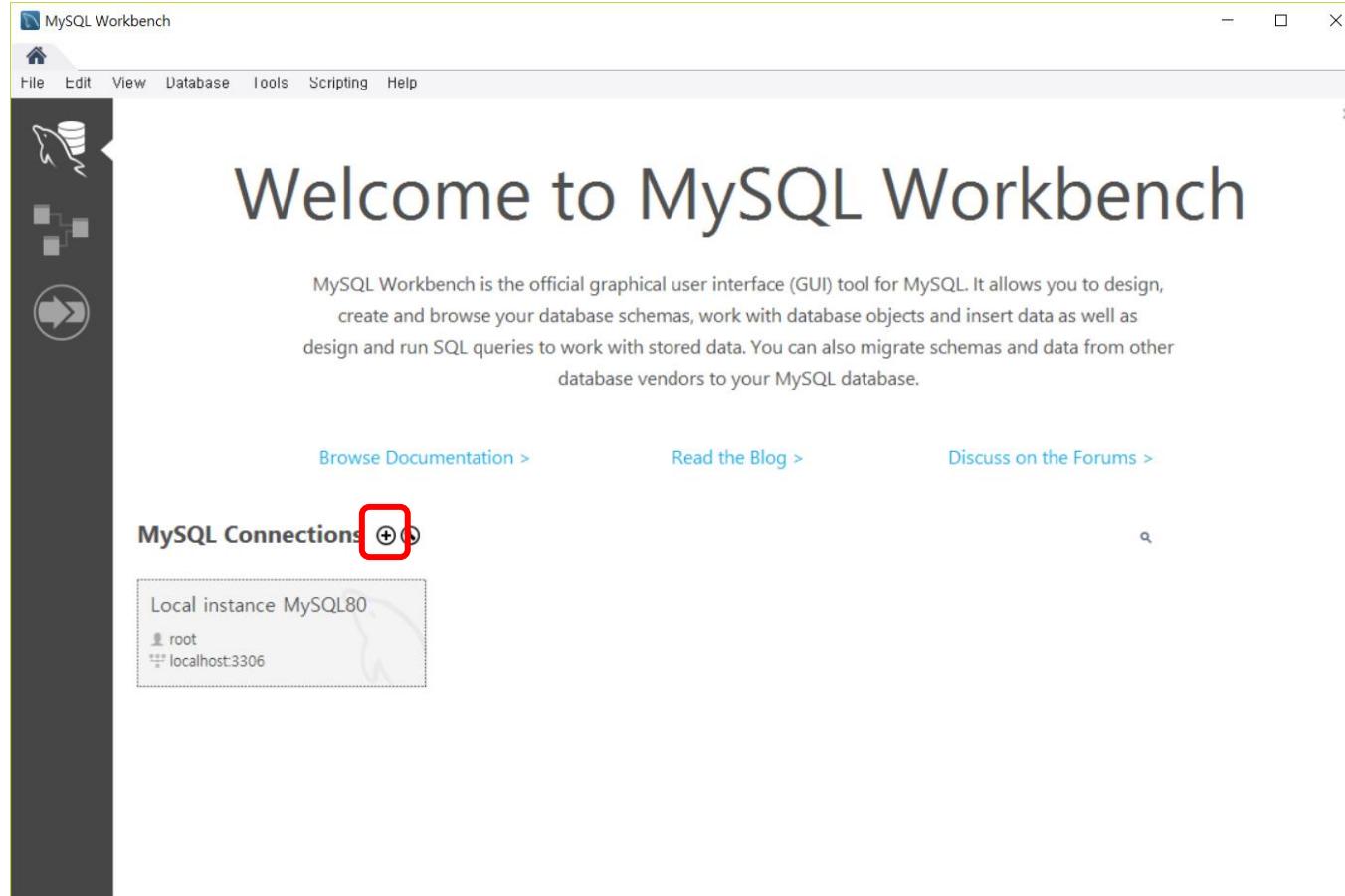
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✓ MySQL Workbench

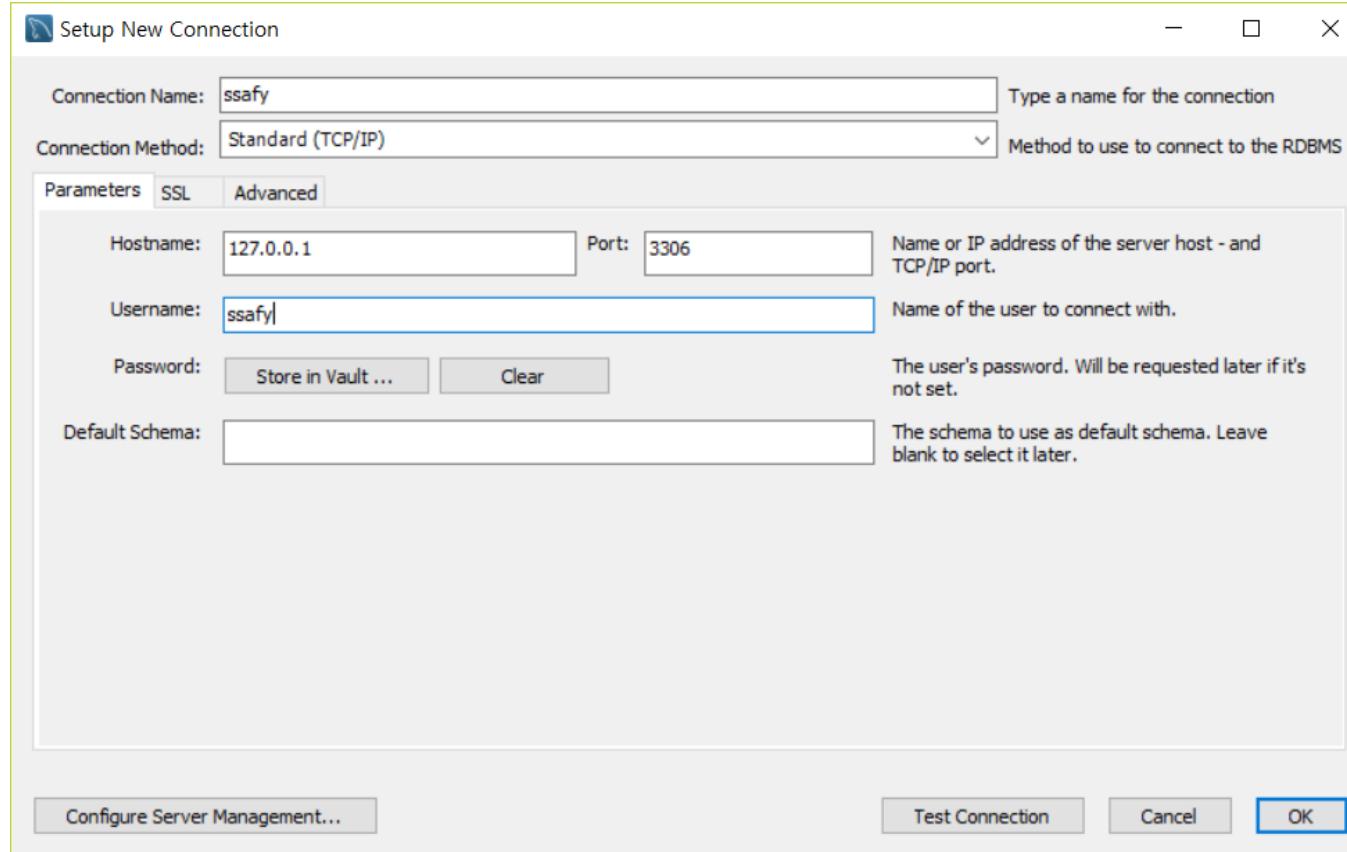
- Connections 추가



MySQL 라이브 방송_코딩

✓ MySQL Workbench

- Connections 추가

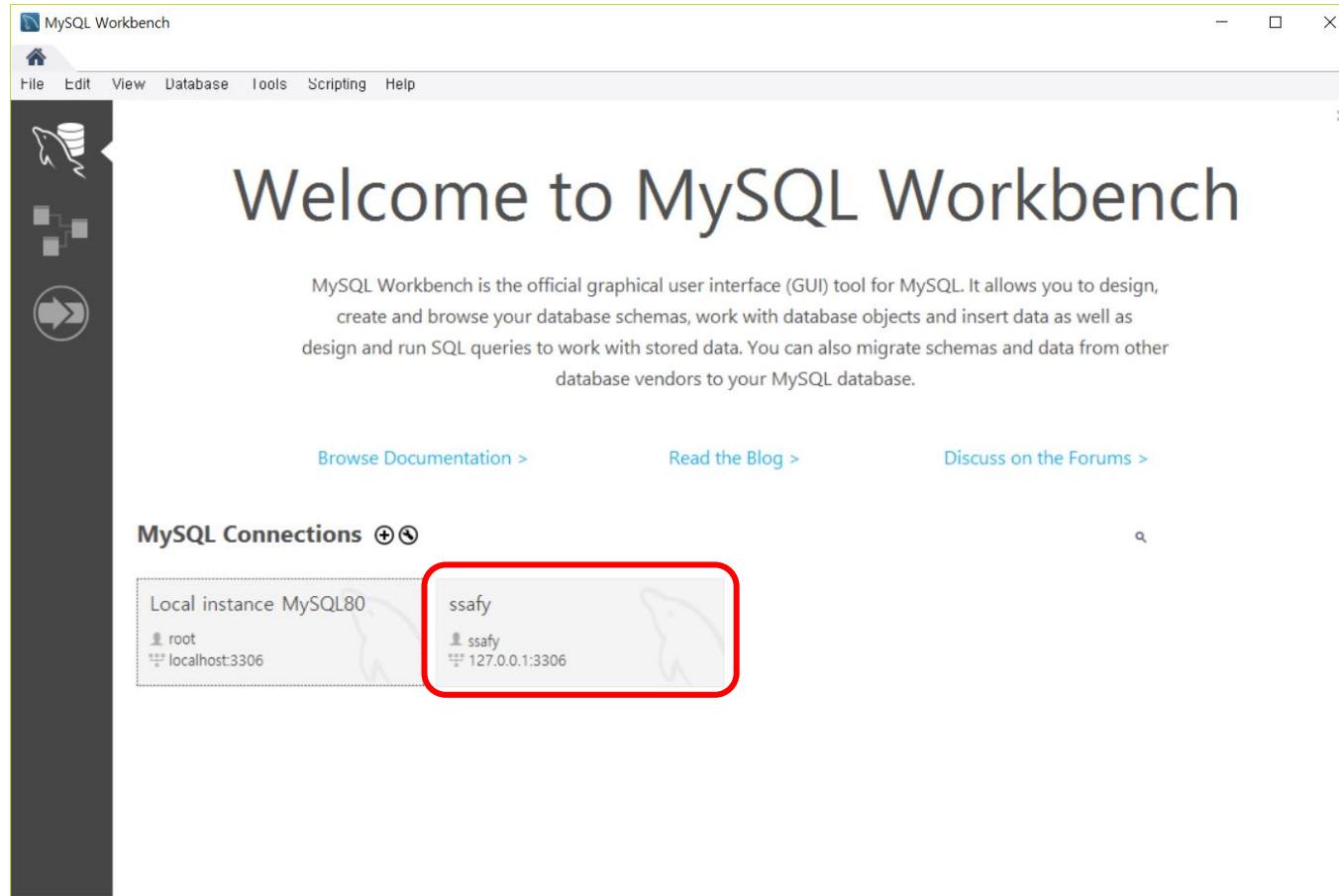


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✓ MySQL Workbench

- Connections 추가



내일
방송에서
만나요!

삼성 청년 SW 아카데미