〈1주차 실습〉

MySQL 설치 및 실습

Database Programming



MySQL 설치



MySQL 실행



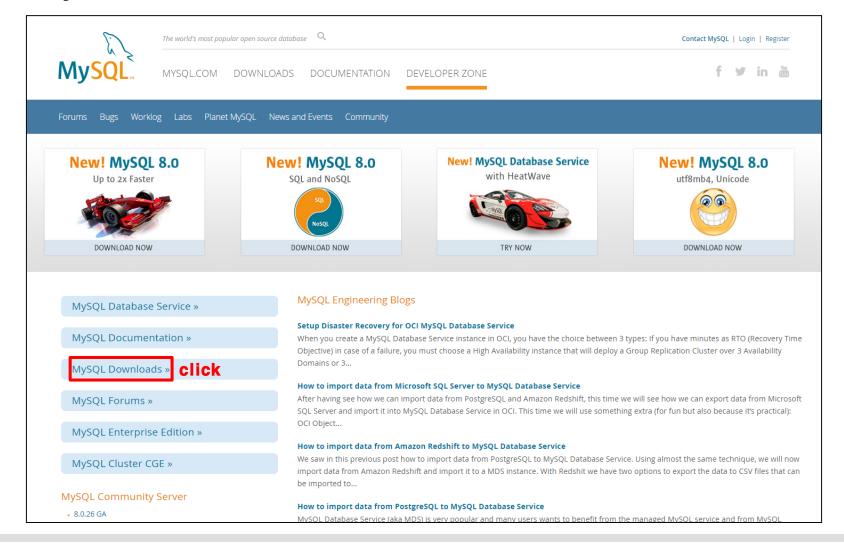
데이터베이스 생성 및 사용



MySQL 기타 명령어

MySQL 설치 (1/23)

- 1) "https://dev.mysql.com/" 사이트에 접속
- 2) "MySQL Download" 클릭



3) "MySQL Community Server" 클릭

MySQL Community Downloads

- MySQL Yum Repository
- MySQL APT Repository
- MySQL SUSE Repository
- MySQL Community Server click
- MySQL Cluster
- MySQL Router
- MySQL Shell
- MySQL Workbench
- MySQL Installer for Windows
- · MySQL for Visual Studio

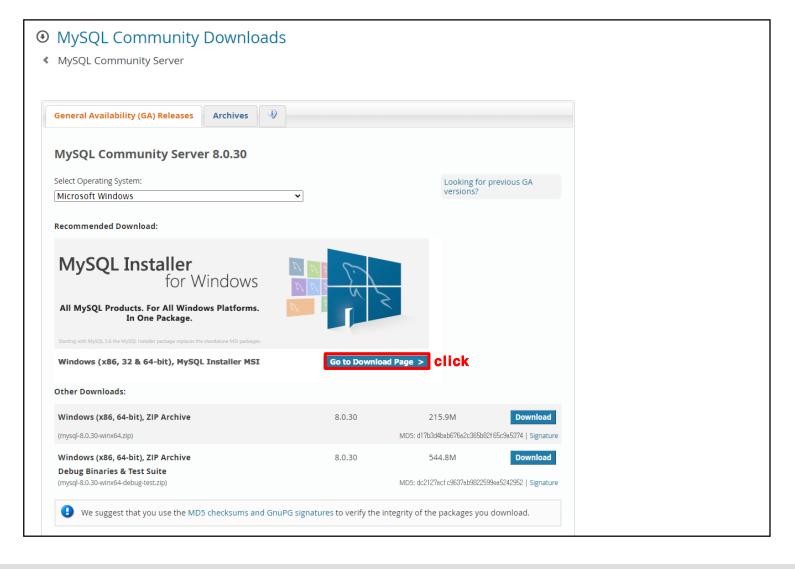
- C API (libmysqlclient)
- Connector/C++
- Connector/J
- Connector/NET
- · Connector/Node.js
- Connector/ODBC
- Connector/Python
- MySQL Native Driver for PHP
- MySQL Benchmark Tool
- Time zone description tables
- Download Archives

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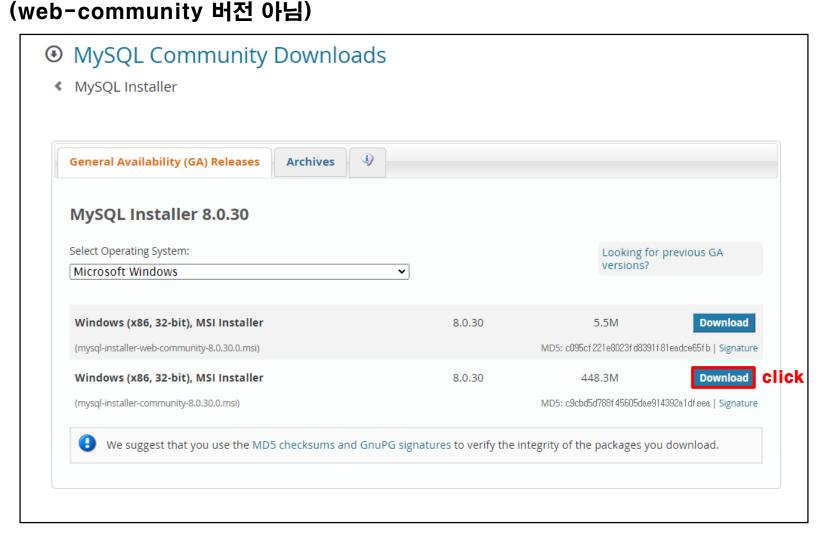
MySQL 설치 (3/23)

4) "Go to Download Page" 클릭



MySQL 설치 (4/23)

5) Community 버전 "Download" 클릭



- 6) "No thanks, just start my download" 클릭
- 7) 다운로드 완료 후, 설치 파일 실행

MySQL Community Downloads

Login Now or Sign Up for a free account.

An Oracle Web Account provides you with the following advantages:

- Fast access to MySQL software downloads
- · Download technical White Papers and Presentations
- · Post messages in the MySQL Discussion Forums
- · Report and track bugs in the MySQL bug system

Login » using my Oracle Web account

Sign Up »

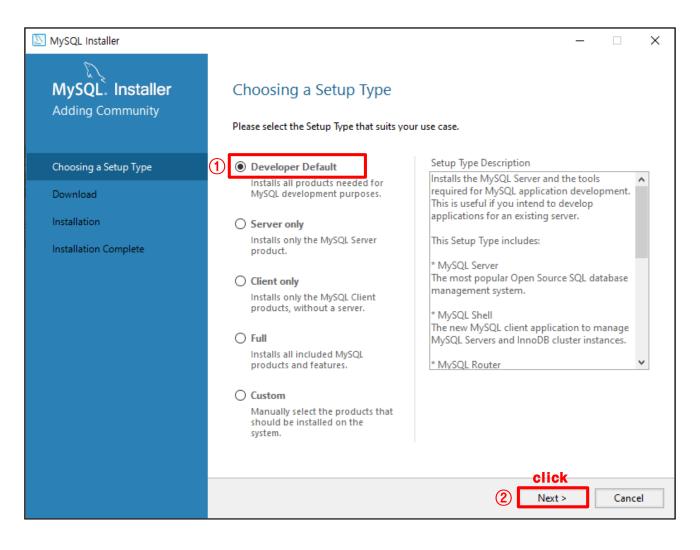
for an Oracle Web account

MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can signup for a free account by clicking the Sign Up link and following the instructions.

No thanks, just start my download. Click

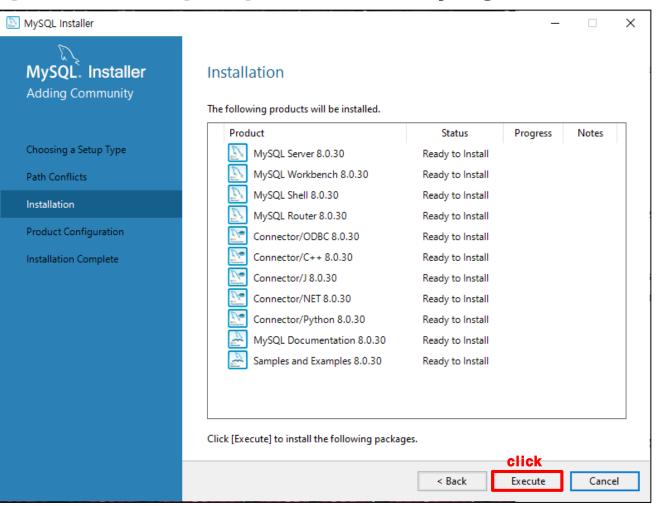
MySQL 설치 (6/23)

8) "Developer Default" 체크 → "Next" 클릭



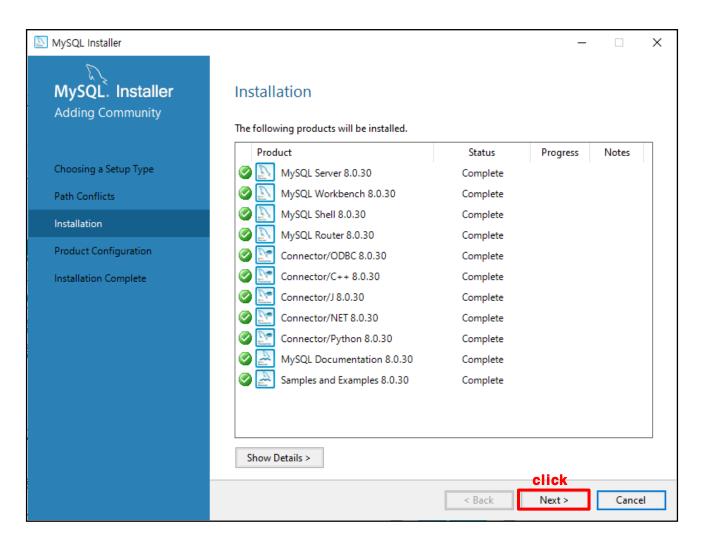
MySQL 설치 (7/23)

9) "Execute" 클릭 (설치 중 Error가 발생한 경우 Notes→Try again 클릭)



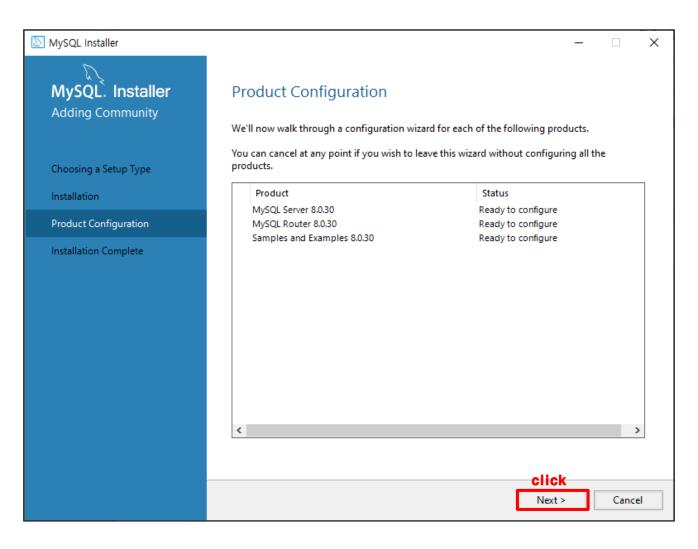
MySQL 설치 (8/23)

10) 설치 완료 후 "Next" 클릭



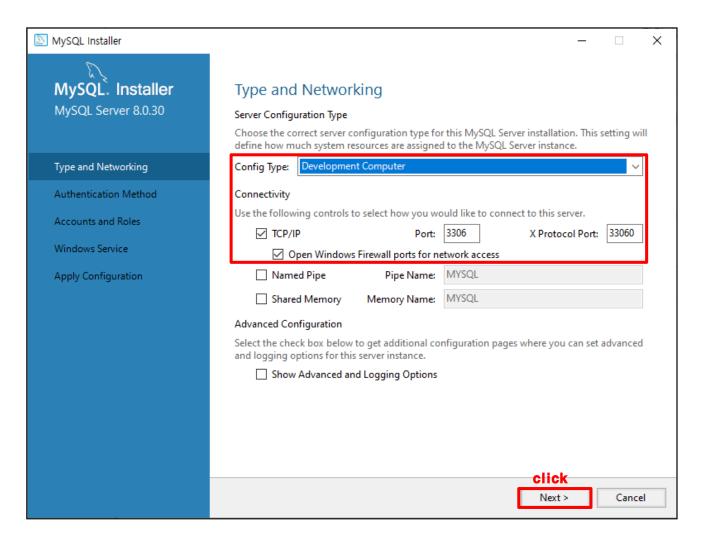
MySQL 설치 (9/23)

11) "Next" 클릭



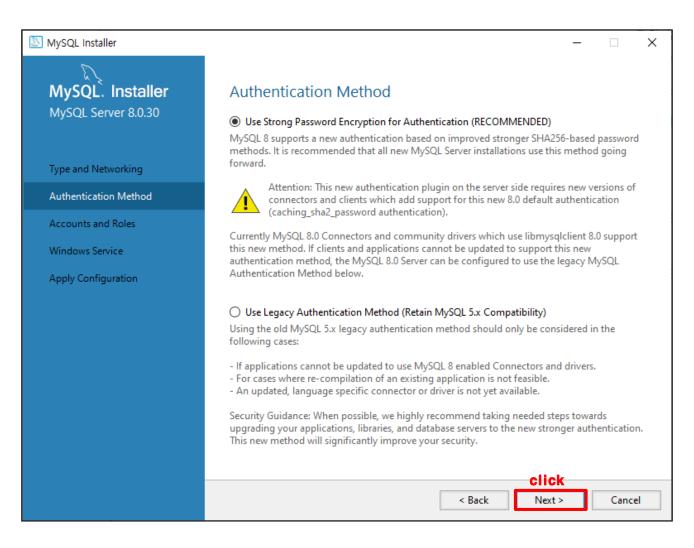
MySQL 설치 (10/23)

12) 접속 기본 설정 확인 후 "Next" 클릭



MySQL 설치 (11/23)

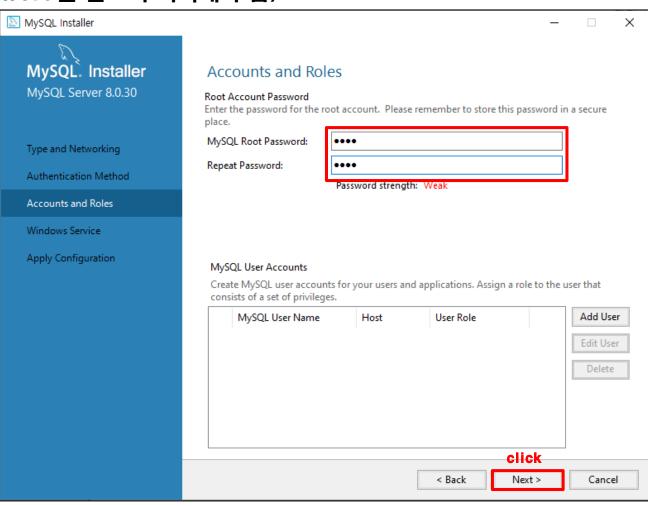
13) "Next" 클릭



MySQL 설치 (12/23)

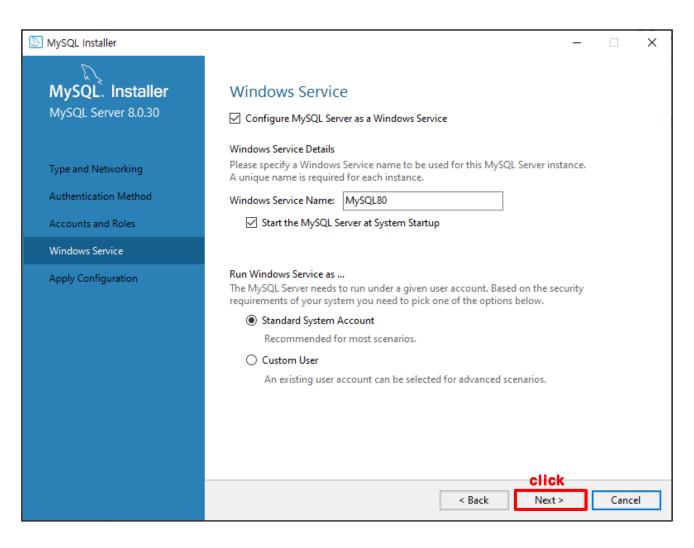
14) Password 입력 → "Next" 클릭

(Password를 반드시 기억해야 함)



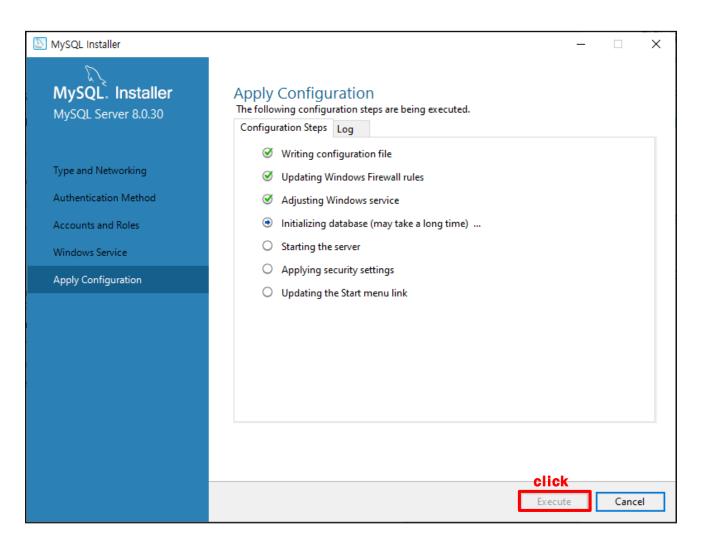
MySQL 설치 (13/23)

15) "Next" 클릭



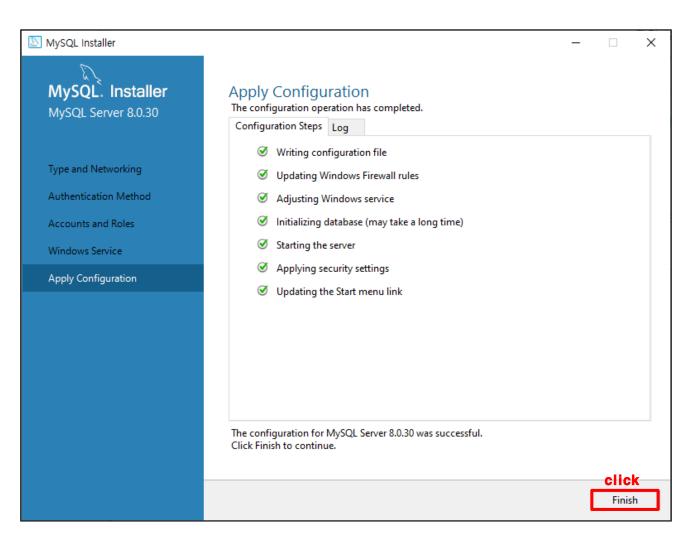
MySQL 설치 (14/23)

16) "Execute" 클릭



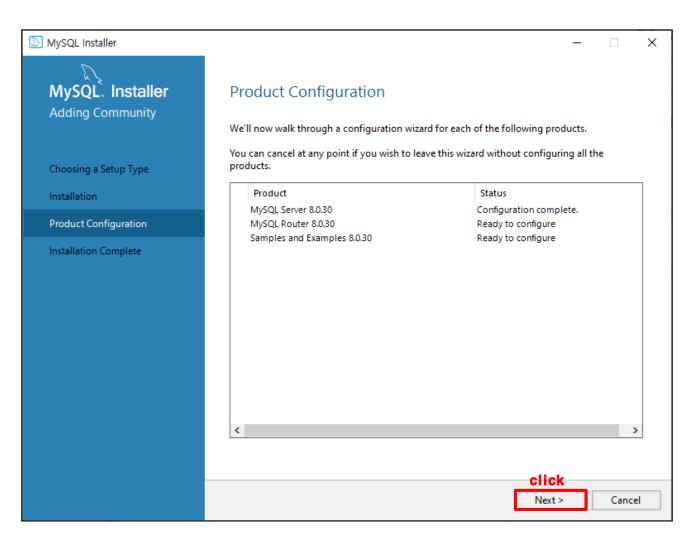
MySQL 설치 (15/23)

17) "Finish" 클릭



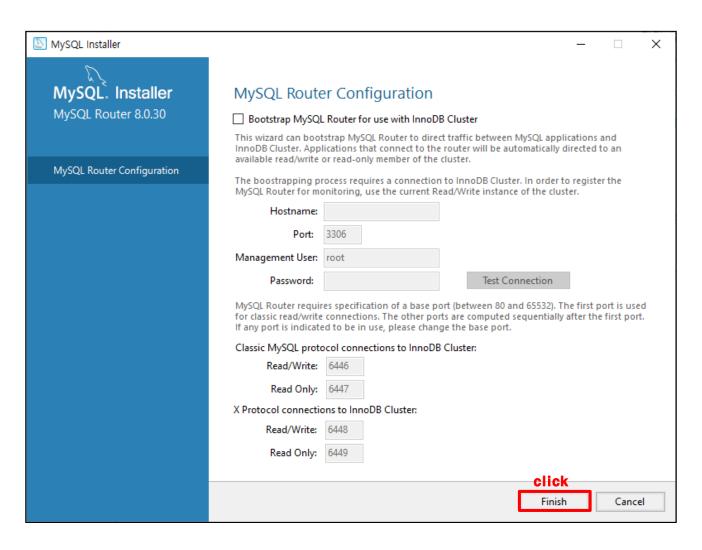
MySQL 설치 (16/23)

18) "Next" 클릭



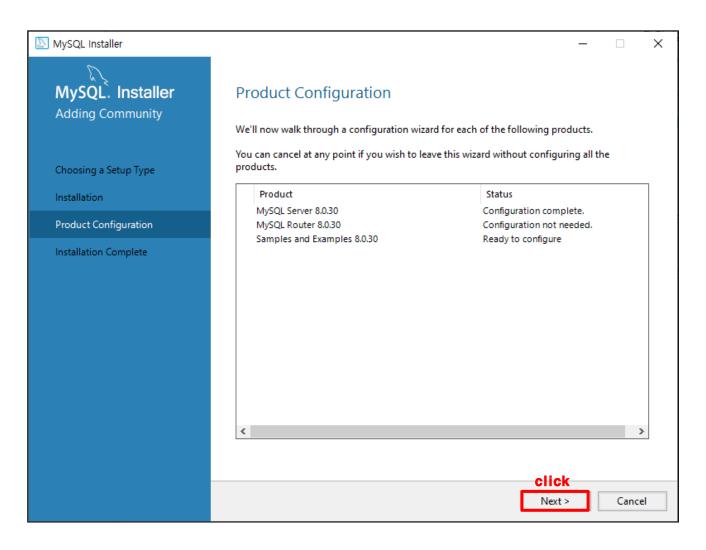
MySQL 설치 (17/23)

19) "Finish" 클릭



MySQL 설치 (18/23)

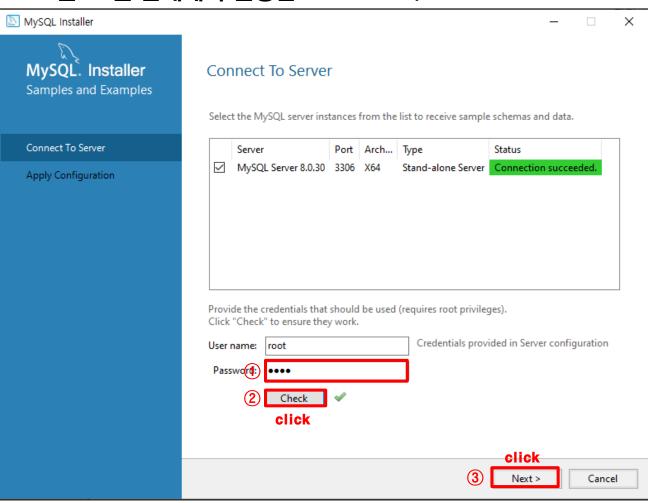
20) "Next" 클릭



MySQL 설치 (19/23)

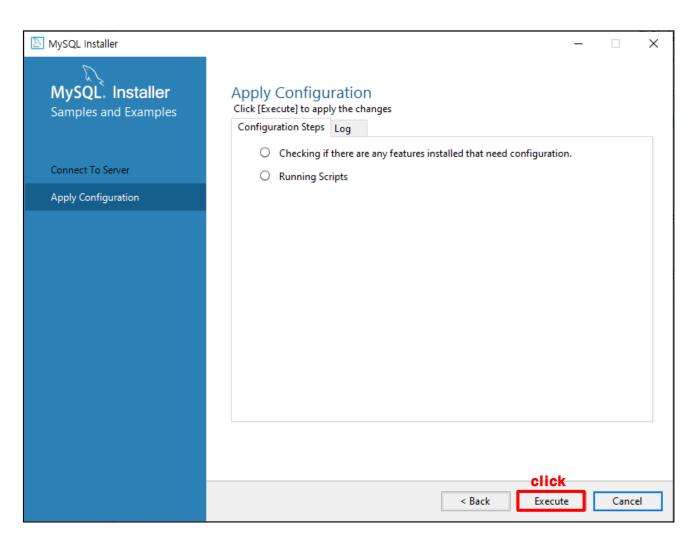
21) Password 입력 후 "Check" 클릭 → "Next" 클릭

(Password는 16번 단계에서 설정한 Password)



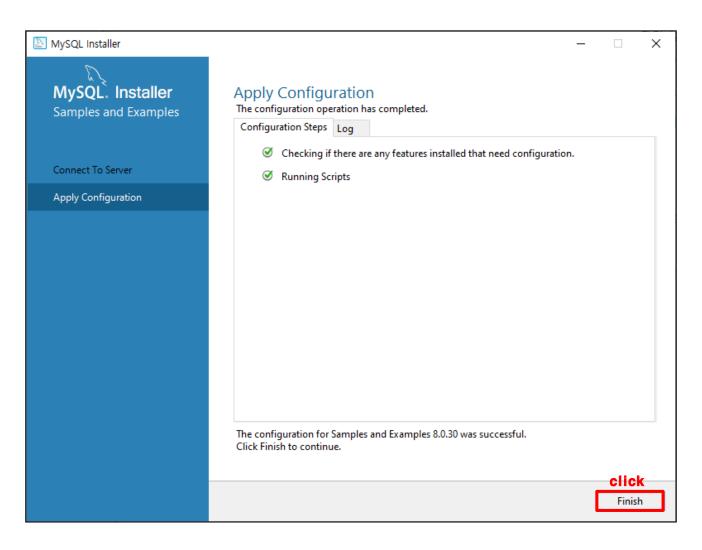
MySQL 설치 (20/23)

22) "Execute" 클릭



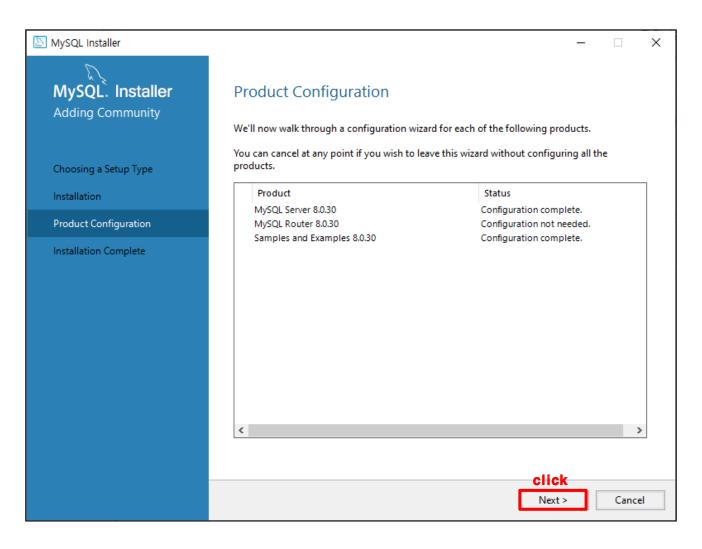
MySQL 설치 (21/23)

23) "Finish" 클릭



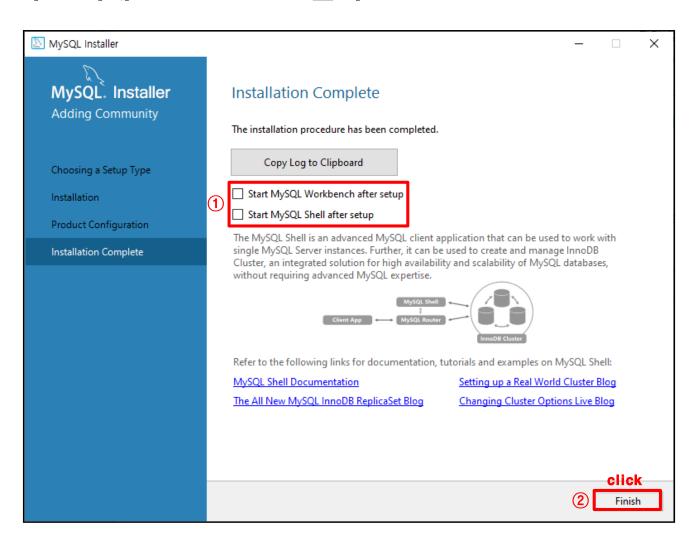
MySQL 설치 (22/23)

24) "Next" 클릭



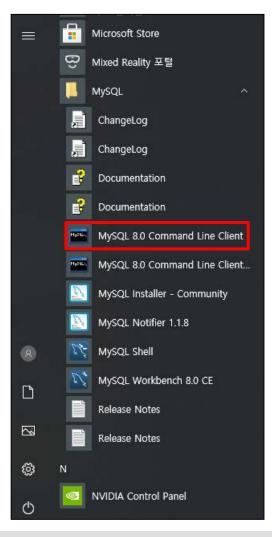
MySQL 설치 (23/23)

25) 체크박스 해제 → "Finish" 클릭



MySQL 실행 (1/3)

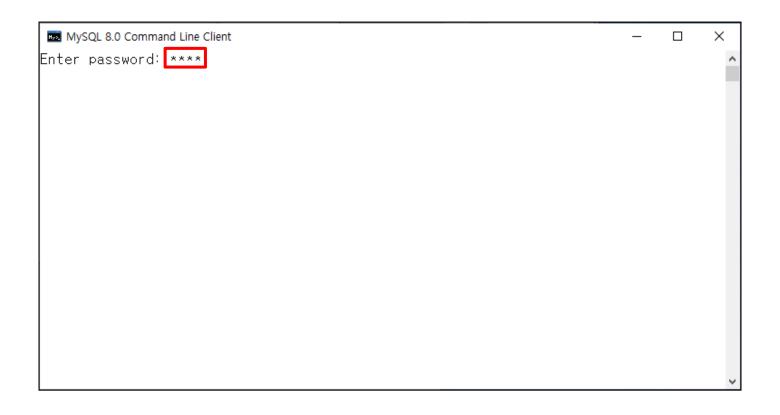
1) 시작 → "MySQL 8.0 Command Line Client" 클릭 (MySQL 8.0 Command Line Client – Unicode 아님)



MySQL 실행 (2/3)

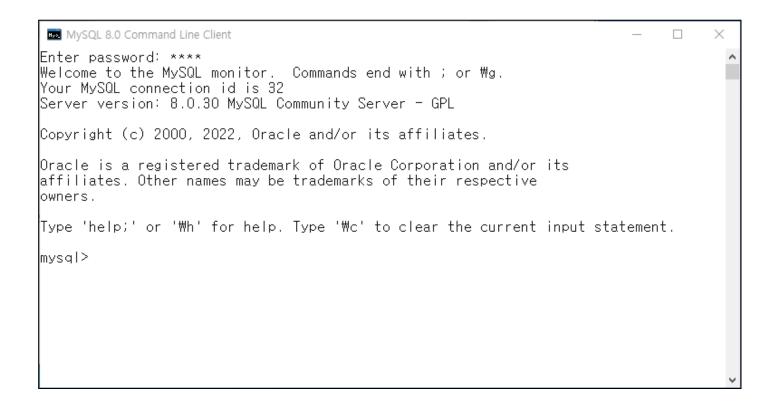
2) 비밀번호 입력

(Password는 설치 16번 단계에서 설정한 Password)



MySQL 실행 (3/3)

3) 접속 성공 시 화면



데이터베이스 생성

CREATE DATABASE database_name;

- ▶ 데이터베이스 사용
 - 사용할 데이터베이스 지정

USE database_name;

■ 전체 데이터베이스 조회

SHOW DATABASES;

데이터베이스 삭제

DROP DATABASE database_name;

데이터베이스 생성 예시

```
mysql><mark>CREATE DATABASE dbpdb;</mark>
Query OK, 1 row affected (0.01 sec)
```

- 데이터베이스 사용 예시
 - 사용할 데이터베이스 지정

```
mysql><mark>USE dbpdb;</mark>
Database changed
```

전체 데이터베이스 조회 예시

데이터베이스 삭제 예시

```
mysql><mark>DROP DATABASE dbpdb;</mark>
Query OK, O rows affected (0.01 sec)
```

■ 전체 테이블 조회

SHOW TABLE STATUS; // 테이블 전체 정보 조회

SHOW TABLES; // 테이블 이름만 조회

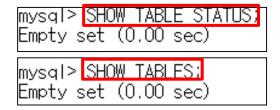
테이블 스키마 구조 확인

DESC table_name;

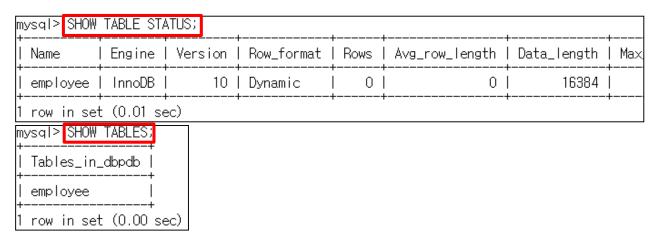
▪ 데이터 조회

SELECT * FROM table_name;

- 전체 테이블 조회 예시
 - 테이블이 없는 경우



• 테이블이 있는 경우



데이터베이스 생성 및 사용 (5/5)

테이블 스키마 확인 예시

mysql> <mark>DESC</mark> t	EMPLOYEE;			.	·
Field	Туре	Null	Key	Default	Extra
Fname Minit Lname Ssn Bdate Address Sex Salary Super_ssn Dno	varchar(15) char(1) varchar(15) char(9) date varchar(30) char(1) decimal(10,2) char(9)	NO YES NO YES YES YES YES YES YES NO	PRI	NULL NULL NULL NULL NULL NULL NULL NULL	
10 rows in se	+ et (0.00 sec)	+	+	 	++

데이터 조회 예시

• 데이터가 없는 경우

mysal><mark>SELECT * FROM EMPLOYEE;</mark> Empty set (0.01 sec)

• 데이터가 있는 경우

Fname	Minit	Lname	Ssn	Bdate	Address	Sex	Salary	Super_ssn	Dno
John Franklin Joyce Ramesh James Jennifer Ahmad Alicia	B T A K E S V	- Smith Wong English Narayan Borg Wallace Jabbar Zelaya	1 23456789 1 333445555 1 453453453 1 666884444 1 888665555 1 987654321 1 987987987 1 999887777	1965-01-09 1955-12-08 1972-07-31 1962-09-15 1937-11-10 1941-06-20 1969-03-29 1968-01-19	731 Fondren, Houston, TX 683 Voss, Houston, TX 5631 Rice, Houston, TX 975 Fire Oak, Humble, TX 450 Stone, Houston, TX 291 Berry, Bellaire, TX 980 Dallas, Houston, TX 3321 Castle, Spring, TX	M F	30000.00 40000.00 25000.00 38000.00 55000.00 43000.00 25000.00	333445555 888665555 333445555 333445555 NULL 888665555 987654321 987654321	5 5 5 5 1 4 4

- ▶ 실행 결과 저장
 - SPOOL 시작

TEE 또는 ₩T 경로₩파일명.txt

SPOOL 종료

NOTEE 또는 ₩t

- 쿼리 파일 실행

SOURCE 또는 ₩. 경로₩파일명.txt

MySQL 종료

QUIT 또는 ₩q