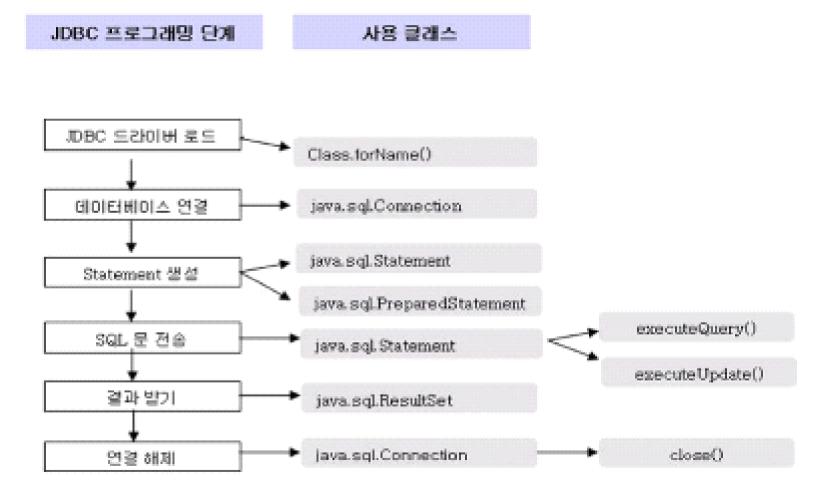
Part 1.

JDBC



02. JDBC 프로그래밍 과정

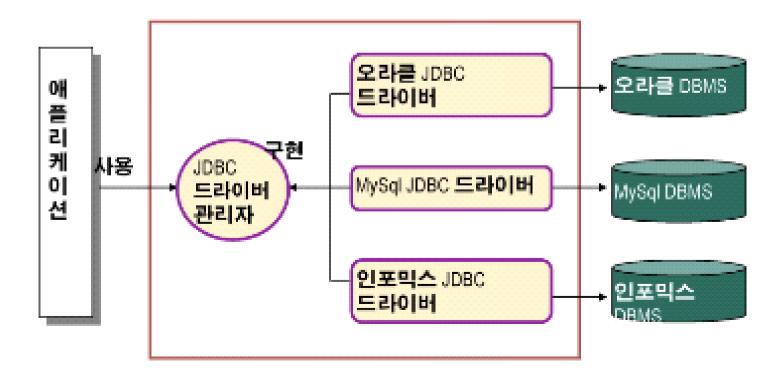
■ JDBC 프로그래밍 단계



01. JDBC 개요

■ JDBC 개념과 역할

- JDBC 구조
 - JDBC(Java Database Connectivity)
 - 자바에서 데이터베이스를 표준화 된 방법으로 접속할 수 있도록 만든 API 규격
 - 데이터베이스 벤더와 상관없이 동일한 개발이 가능함.

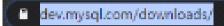


Part 2.

Connector/J 다운로드/설정



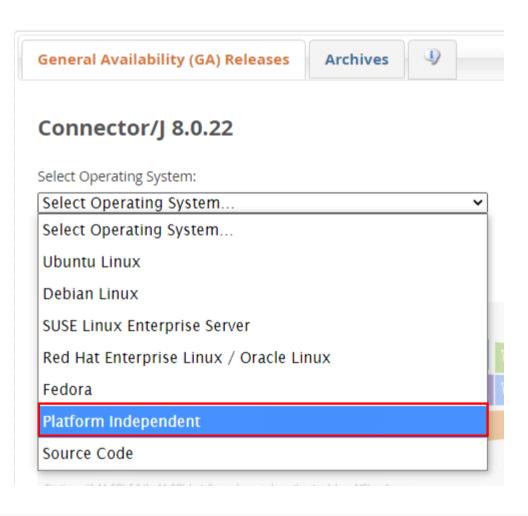
https://www.mysql.com/downloads/



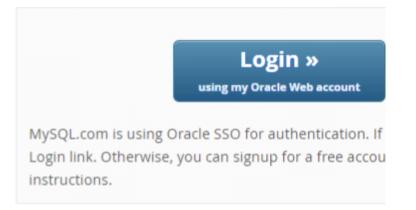
MySQL Community Downloads

- MySQL Yum Repository
- MySQL APT Repository
- MySQL SUSE Repository
- MySQL Community Server
- MySQL Cluster
- . MySQL Router
- MySQL Shell
 - Bally (CASI). All based decreases a la

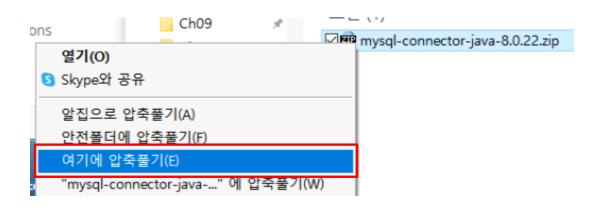
- C API (libmysglclient)
- Connector/C++
- Connector/J
- Connector/NET
- Connector/Node.js
- Connector/ODBC
- Connector/Python
- MySQL Native Driver for PHP



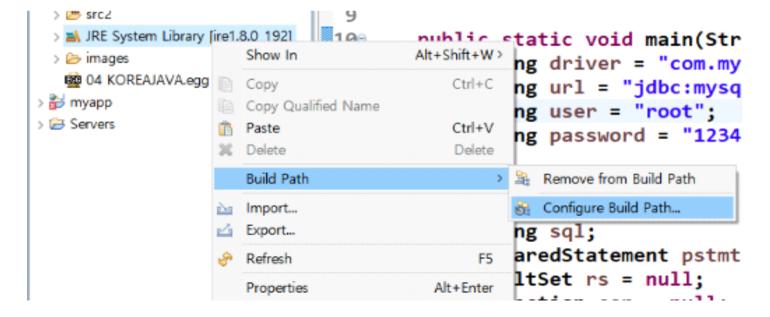




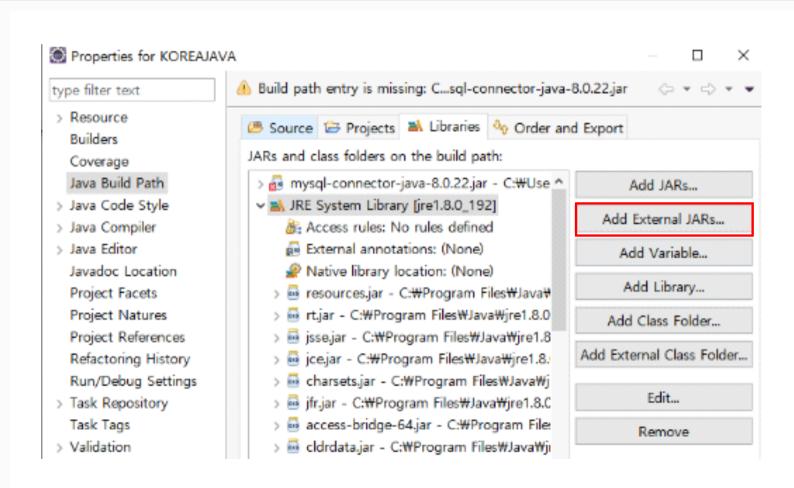
No thanks, just start my download.

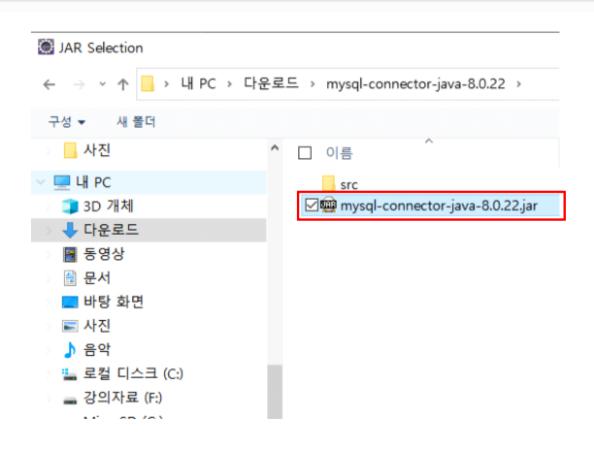


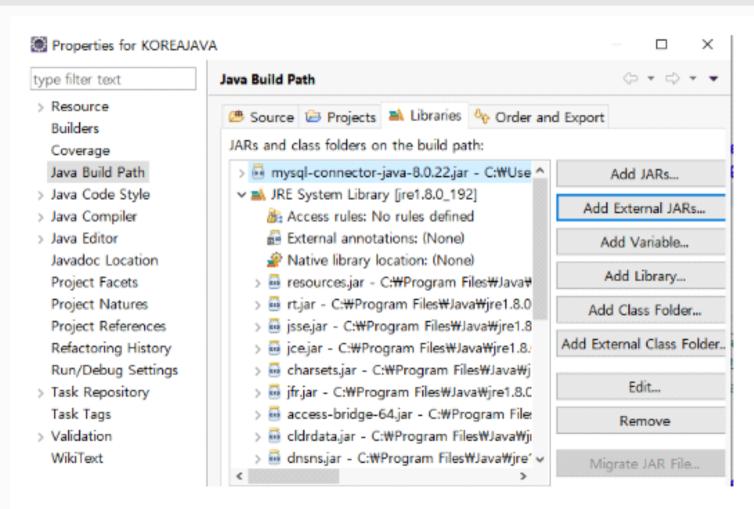




이클립스 왼쪽 Package Explorer -> JRE System Library 우클릭-> Build Path-> Configure Build Path..

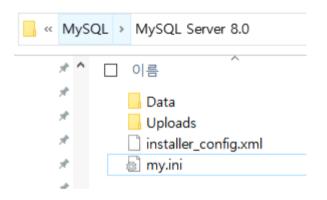






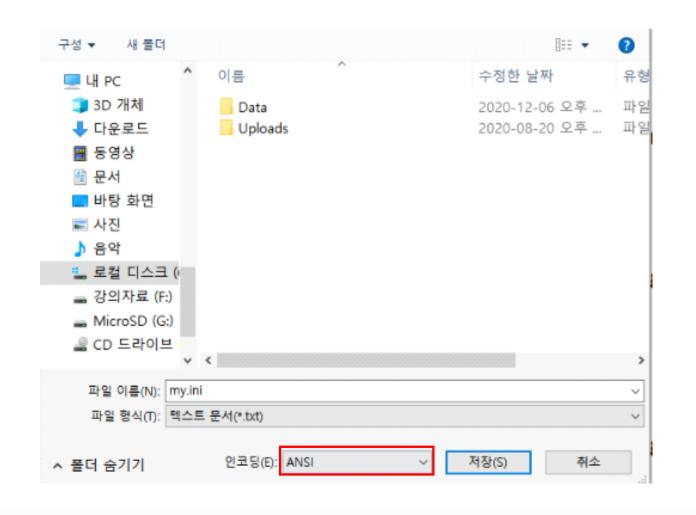
Apply and Close 버튼 클릭

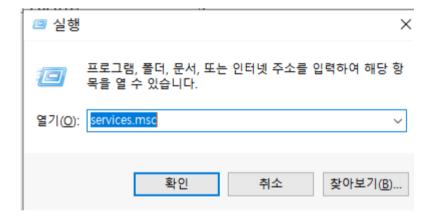
c:\program data\MySQL\Mysql Server 8.0

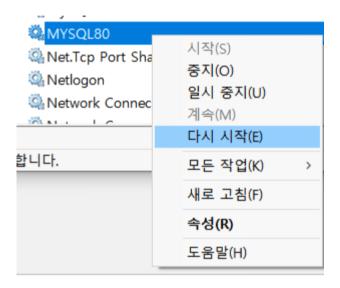


my.ini 파일 마지막에 아래 코드 추가

default-time-zone=+00:00







Part 3.

Mysql 연결할 DB/Table 생성



02 DB/Table 만들기

DB/Table 만들기

```
drop database if exists tempdb;
create database tempdb;
use tempdb;
create table membertbl
          id char(10) primary key,
  name nvarchar(10) not null,
  age int not null,
  addr nvarchar(50),
  num1 char(6),
  num2 char(7),
  phone varchar(15)
desc membertbl;
insert into membertbl values('aaa','에이',20,'대구','8888888','8888888','0102223333');
insert into membertbl values('bbb','비이',24,'울산','888883','2222222','0102827383');
select * from membertbl:
```

Part 4.

SELECT



02 SELECT Code

DB 조회

```
String driver = "com.mysql.cj.jdbc.Driver";
String url = "jdbc:mysql://localhost:3306/tempDB";
String user = "root";
String password = "1234";
//연결에 사용될 참조변수
String sal;
                                                    //sal 문저장
PreparedStatement pstmt =null;
                                                    //sql문 명령 전달하는 용도
ResultSet rs = null;
                                                    //쿼리 결과 저장
                                                    //연결 정보 저장
Connection con = null;
try {
Class.forName(driver);
System.out.println("Driver Loading Success");
con=DriverManager.getConnection(url,user,password);
System.out.println("DB Connected..");
sql="select * from membertbl";
pstmt = con.prepareStatement(sql);
rs=pstmt.executeQuery();
```

02 SELECT Code

DB 조회

02 SELECT Code

DB 조회

```
}catch(Exception e){
           e.printStackTrace();
}finally {
           try {
                       if(rs!=null)
                                   rs.close();
           }catch(Exception e1) {};
           try {
                       if(pstmt!=null)
                                   pstmt.close();
           }catch(Exception e2) {}
           try {
                       if(con !=null)
                                   con.close();
           }catch(Exception e) {}
```

Part 5.

INSERT



02 INSERT Code

DB 삽입

```
String driver = "com.mysql.cj.jdbc.Driver";
String url = "jdbc:mysql://localhost:3306/tempDB";
String user = "root";
String password = "1234";

//연결에 사용될 참조변수
String sql; //sql 문저장
PreparedStatement pstmt =null; //sql문 명령 전달하는 용도
ResultSet rs = null; //쿼리 결과 저장
Connection con = null; //연결 정보 저장
```

02 INSERT Code

DB 삽입

```
try {
Class.forName(driver);
System.out.println("Driver Loading Success");
con=DriverManager.getConnection(url,user,password);
System.out.println("DB Connected..");
sql="insert into membertbl values(?,?,?,?,?,?)";
pstmt = con.prepareStatement(sql);
pstmt.setString(1, "ccc");
pstmt.setString(2, "씨이");
pstmt.setInt(3, 30);
pstmt.setString(4, "서울");
pstmt.setString(5, "111111");
pstmt.setString(6, "2222222");
pstmt.setString(7, "0102223333");
int num = pstmt.executeUpdate();
if(num==1)
           System.out.println("Insert Succeed");
```

02 INSERT Code

DB 삽입

```
}catch(Exception e){
            e.printStackTrace();
}finally {
           try {
                       if(rs!=null)
                                   rs.close();
           }catch(Exception e1) {};
           try {
                       if(pstmt!=null)
                                   pstmt.close();
           }catch(Exception e2) {}
           try {
                       if(con !=null)
                                   con.close();
           }catch(Exception e) {}
```

Part 6.

UPDATE



02 UPDATE Code

DB 수정

```
String driver = "com.mysql.cj.jdbc.Driver";
String url = "jdbc:mysql://localhost:3306/tempDB";
String user = "root";
String password = "1234";

//연결에 사용될 참조변수
String sql; //sql 문저장
PreparedStatement pstmt =null; //sql문 명령 전달하는 용도
ResultSet rs = null; //쿼리 결과 저장
Connection con = null; //연결 정보 저장
```

02 UPDATE Code

DB 수정

02 UPDATE Code

DB 수정

```
}catch(Exception e){
           e.printStackTrace();
}finally {
           try {
                       if(rs!=null)
                                   rs.close();
           }catch(Exception e1) {};
           try {
                       if(pstmt!=null)
                                   pstmt.close();
           }catch(Exception e2) {}
           try {
                       if(con !=null)
                                   con.close();
           }catch(Exception e) {}
```

Part 7.

DELETE



02 DELETE Code

DB 삭제

```
String driver = "com.mysql.cj.jdbc.Driver";
String url = "jdbc:mysql://localhost:3306/tempDB";
String user = "root";
String password = "1234";

//연결에 사용될 참조변수
String sql; //sql 문저장
PreparedStatement pstmt =null; //sql문 명령 전달하는 용도
ResultSet rs = null; //쿼리 결과 저장
Connection con = null; //연결 정보 저장
```

02 DELETE Code

DB 삭제

02 DELETE Code

DB 삭제

```
}catch(Exception e){
            e.printStackTrace();
}finally {
           try {
                       if(rs!=null)
                                   rs.close();
           }catch(Exception e1) {};
           try {
                       if(pstmt!=null)
                                   pstmt.close();
           }catch(Exception e2) {}
           try {
                       if(con !=null)
                                   con.close();
           }catch(Exception e) {}
```

END.

고생하셨습니다

