1. Cấu hình các thư viện jdbc.
   1. Tải driver Jdbc sql server

[Download - JDBC Driver for SQL Server | Microsoft Learn](https://learn.microsoft.com/en-us/sql/connect/jdbc/download-microsoft-jdbc-driver-for-sql-server?view=sql-server-ver16)

* 1. Cài đặt và thêm vào project:

B1. Giải nén file vừa tải về.

sqljdbc_12.6 
6/26/2024 11:55 AM 
File folder 

B2. Thêm file jar vào thư viện của project.

ManageProject 
src/main/java 
src/main/resources 
V src/test/java 
V src/test/resources 
JRE System Library [JavaSE-1 81 
Show In 
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Paste 
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Build Path 
mssql.googlecode.cityhash 
1 pal 
2 
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6 
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8 
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Ctrl+C 
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Delete 
19 
20 
mssql.googlecode.concurrentlinkedhas 
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mssql.security.provider 
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META-INF 
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pom.xml 

B3.

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New folder 
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Desktop 
Downloads 
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Music 
Videos 
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Zalo Received F 
ssql-jdbc-12.6.3.jre8.jar 
ssql-jdbc-12.6.3.jre8-javadoc.jar 
ssql-jdbc-12.6.3.jre8-sources.jar 
ssql-jdbc-12.6.3.jre11.jar 
ssql-jdbc- 12.6.3.jre11 -javadoc.jar 
C 
Date modified 
6/26/2024 11:55 AM 
6/26/2024 11:55 AM 
6/26/2024 11:55 AM 
6/26/2024 11:55 AM 
6/26/2024 11:55 AM 
Search jars 
Type 
Executable Jar File 
Executable Jar File 
Executable Jar File 
Executable Jar File 
Executable Jar File 
x 
p 
Size 
1,427 
1,196 
957 
1,440 
1,218 
x 
Add JARsm 
Add External JARs.„ 
Add Variable.„ 
Add Library.„ 
Add Class Folder.„ 
Add External Class Folder.„ 
Remove 
Migrate JAR File... 
ply and Close 
Apply 
Cancel 
File name: mssql-jdbc-12.6.3.jre11-sources.jar 
Open 
Cancel 

 B4. Kiểm tra:

ManageProject 
src/main/java 
src/main/resources 
V src/test/java 
V src/test/resources 
JRE System Library [JavaSE-1.81 
Referenced Librari 
mssqI-jdbc-12.6.3jre11jar - 
com.microsoft.sqlserverjdbc 
com.microsoft.sqlserverjdbc.dataclassif 
com.microsoft.sqlserverjdbc.dns 
com.microsoft.sqlserverjdbc.osgi 
com.microsoft.sqlserver.jdbc.spatialdaté 
microsoft.sql 
mssql.googlecode.cityhash 
mssql.googlecode.concurrentlinkedhas 
mssql.security.provider 
META-INF 
target 
pom.xml 

1. Cấu hình SQL Server.
   1. SQL Server Configuration Manager (Local) 
      SQL Server Services 
      SQL Server Network Configuration (32bit) 
      SQL Native Client 11.0 Configuration (32bit) 
      Azure Extension For SQL Server 
      SQL Server Network Configuration 
      Protocols for MSSQLSERVER 
      SQL Native Client 11.0 Configuration 
      Azure Extension For SQL Server 
      Protocol Name 
      Shared Memory 
      Named Pipes 
      T TCP/IP 
      Status 
      Enabled 
      Enabled 
      Enabled 
2. Tạo class Configuration.

AppConfiguration.java E ManageProject/pom.xml 
1 package 
project . app; 
2 
30 import 
java . sq1. Connection; 
6 
7 public class AppConfiguration 
8 
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public static void main(String[] args) { 
// TODO Auto-generated method stub 
String 
connectionString 
" jdbc : sqlserver : / /Minhn : 1433 ; Database=ManageDepartment ; integratedSecurity=true ; "+" encrypt-false ; trustServerCertificate=true " , 
try 
Connection connection 
Drivermanager . getConnection( connectionString) ; 
System -out. println( "Connect sucessfully" 
catch SQLException 
// TODO Auto-generated catch block 
System -out. println( "Some thing was strong ! " 
e . printStackTrace(); 

B1: Tạo String "Connect String" mục đích để đưa tham số vào function của thư viện Connection.

Jdbcsqlserver: phần nhận biết driver jdbc

Minhn:  Tên database.

Database: tên database.

Usename + password:

IntegreateSecurity = true: sử dụng user name và pass word chung với lại user name với pass word của windows authentication.

B2: Tạo Object Connect khởi tạo giá trị ban đầu là data mà được lấy từ sql server.

B3: Đưa câu lệnh gọi connection vào khối try - catch để bắt lỗi.

1. Lưu ý khi xuất hiện lỗi:
   1. [JDBC SQLServerException: "This driver is not configured for integrated authentication."](https://stackoverflow.com/questions/6087819/jdbc-sqlserverexception-this-driver-is-not-configured-for-integrated-authentic)

Nguyên nhân không tìm thấy file .dll trên thư viện tích hợp.

Copy file .dll trên sqljdbc\_12.6\enu\auth\x64 -> C:\Program Files\Java\jdk-22\bin (file môi trường cài đặt java trên máy tính).

1. Kết quả:

* E ManageProject/pom.xml 
  AppConfiguration.java 
  1 package 
  project . app 
  2 
  39 import 
  java . sq1. Connection; 
  4 import 
  java . sq1. DriverManager; 
  5 import 
  java . sq1. SQLException; 
  6 
  7 public class AppConfiguration 
  8 
  11 
  12 
  13 
  - 18 
  19 
  20 
  21 
  22 
  23 
  24 
  public static void main(String 
  C] args) { 
  // TODO Auto-generated method stub 
  String 
  connectionString 
  " j dbc : sqlserver : / /Minhn : 1433 ; Database=ManageDepartment ; integratedSecurity=true ; "+" encrypt—true ; trustServerCertificate=true " , 
  try 
  Connection connection 
  DriverManager . getConnection( connectionString) ; 
  System -out. println( "Connect sucessfully" 
  catch SQLException 
  // TODO Auto-generated catch block 
  System -out. println( "Some thing was strong ! " 
  e . printStackTrace(); 
  R Problems Servers Terminal Data Source Explorer Properties g Console 
  <terminated> AppConfiguration [Java Application] C:\Program (Jun 26, 2024, 5:47:47 PM 
  Connect sucessfully 
  - PM) [pid: 25961 