

The screenshot shows the Eclipse IDE with a project named 'Java\_Hospital\_DB\_Diagnoses'. The package explorer on the left shows the project structure, including a 'src' folder with a package 'com.oracle.hospital\_db\_diagnoses' containing the file 'Java\_Hospital\_DB\_Diagnoses.java'. The main editor displays the code for this class, which is a public class with a static main method. The code imports necessary packages for database connectivity and logging. The main method constructs a SQL query to create a table named 'diagnoses' with columns 'diag\_id' (primary key), 'diag\_desc', 'doc\_id', and 'hosp\_id'. It then establishes a connection to a local database, executes the query, and prints confirmation messages. The console at the bottom shows the output of the program, indicating a successful connection and table creation.

```
1 package com.oracle.hospital_db_diagnoses;
2 import java.sql.Connection;
3 import java.sql.DriverManager;
4 import java.sql.SQLException;
5 import java.sql.Statement;
6 import org.slf4j.Logger;
7 import org.slf4j.LoggerFactory;
8
9 public class Java_Hospital_DB_Diagnoses {
10
11     public static void main(String[] args) throws SQLException {
12
13         String query_1 = "CREATE TABLE diagnoses ("
14             + "diag_id int PRIMARY KEY NOT NULL,"
15             + "diag_desc varchar2(50),"
16             + "doc_id int,"
17             + "hosp_id int)";
18
19         Logger logger = LoggerFactory.getLogger(Java_Hospital_DB_Diagnoses.class);
20
21         try (Connection conn = DriverManager.getConnection("jdbc:oracle:thin:username/password@//localhost:1521/pdb");
22             Statement stmt = conn.createStatement()) {
23             stmt.executeUpdate(query_1);
24         } catch (SQLException e) {
25             logger.warn(e.getMessage(), e);
26         }
27         System.out.println("Connected to Hospital_DB database successfully.");
28         System.out.println("Diagnoses table created.");
29     }
30 }
31
```

Console Output:

```
<terminated> Java_Hospital_DB_Update_Varchar2 [Java Application] C:\Program Files\Java\jdk-15.0.1\bin\javaw.exe (Jul 22, 2021, 9:03:32 PM - 9:03:34 PM)
Connected to Hospital_DB database successfully.
Diagnoses table created.
```