



```
1 package com.oracle.hospital_db_add_foreign_keys;
2 import java.sql.*;
3
4 public class Java_Hospital_DB_Add_Foreign_Keys {
5
6     public static void main(String[] args) throws SQLException {
7
8         Connection conn = null;
9         Statement stmt = null;
10
11         try {
12             Class.forName("oracle.jdbc.driver.OracleDriver");
13             conn = DriverManager.getConnection("jdbc:oracle:thin:username/password@//localhost:1521/pdb", "username", "password");
14             System.out.println("Connected to Hospital_DB database successfully.");
15             stmt = conn.createStatement();
16
17             String query_1 = "ALTER TABLE doctors ADD CONSTRAINT hosp_id_fk_1 FOREIGN KEY (hosp_id) REFERENCES hospitals (hosp_id)";
18             String query_2 = "ALTER TABLE diagnoses ADD CONSTRAINT doc_id_fk_1 FOREIGN KEY (doc_id) REFERENCES doctors (doc_id)";
19             String query_3 = "ALTER TABLE diagnoses ADD CONSTRAINT hosp_id_fk_2 FOREIGN KEY (hosp_id) REFERENCES hospitals (hosp_id)";
20             String query_4 = "ALTER TABLE transactions ADD CONSTRAINT hosp_id_fk_3 FOREIGN KEY (hosp_id) REFERENCES hospitals (hosp_id)";
21             String query_5 = "ALTER TABLE transactions ADD CONSTRAINT diag_id_fk_1 FOREIGN KEY (diag_id) REFERENCES diagnoses (diag_id)";
22             String query_6 = "ALTER TABLE transactions ADD CONSTRAINT doc_id_fk_2 FOREIGN KEY (doc_id) REFERENCES doctors (doc_id)";
23             String query_7 = "ALTER TABLE transactions ADD CONSTRAINT pat_id_fk_1 FOREIGN KEY (pat_id) REFERENCES patients (pat_id)";
24             String query_8 = "ALTER TABLE transactions ADD CONSTRAINT prod_id_fk_1 FOREIGN KEY (prod_id) REFERENCES products (prod_id)";
25             String query_9 = "ALTER TABLE invoices ADD CONSTRAINT hosp_id_fk_4 FOREIGN KEY (hosp_id) REFERENCES hospitals (hosp_id)";
26             String query_10 = "ALTER TABLE invoices ADD CONSTRAINT doc_id_fk_3 FOREIGN KEY (doc_id) REFERENCES doctors (doc_id)";
27             String query_11 = "ALTER TABLE invoices ADD CONSTRAINT diag_id_fk_2 FOREIGN KEY (diag_id) REFERENCES diagnoses (diag_id)";
28             String query_12 = "ALTER TABLE invoices ADD CONSTRAINT pat_id_fk_2 FOREIGN KEY (pat_id) REFERENCES patients (pat_id)";
29             String query_13 = "ALTER TABLE invoices ADD CONSTRAINT prod_id_fk_2 FOREIGN KEY (prod_id) REFERENCES products (prod_id)";
30             String query_14 = "ALTER TABLE invoices ADD CONSTRAINT trans_id_fk_1 FOREIGN KEY (trans_id) REFERENCES transactions (trans_id)";
31
32             stmt.executeUpdate(query_1);
33             stmt.executeUpdate(query_2);
34             stmt.executeUpdate(query_3);
35             stmt.executeUpdate(query_4);
36             stmt.executeUpdate(query_5);
37             stmt.executeUpdate(query_6);
38             stmt.executeUpdate(query_7);
39             stmt.executeUpdate(query_8);
40             stmt.executeUpdate(query_9);
41             stmt.executeUpdate(query_10);
42             stmt.executeUpdate(query_11);
43             stmt.executeUpdate(query_12);
44             stmt.executeUpdate(query_13);
45             stmt.executeUpdate(query_14);
46             System.out.println("Foreign Keys added successfully.");
47
48         } catch (ClassNotFoundException cnfe) {
49             cnfe.printStackTrace();
50         } catch (SQLException sqle) {
51             sqle.printStackTrace();
52         } catch (Exception ex) {
53             ex.printStackTrace();
54         }
55
56         finally {
57             try {
58                 if(stmt != null) {
59                     stmt.close();
60                 }
61             } catch (SQLException sqle) {
62                 sqle.printStackTrace();
63             }
64             try {
65                 if(conn != null) {
66                     conn.close();
67                 }
68             } catch (SQLException sqle) {
69                 sqle.printStackTrace();
70             }
71         }
72     }
73 }
74
75 }
```

com.oracle.hospital_db_add_foreign_keys
Java_Hospital_DB_Add_Foreign_Keys
main(String[]) : void

Problems Javadoc Declaration Console
<terminated> Java_Hospital_DB_Update_Varchar2 [Java Application] C:\Program Files\Java\jdk-15.0.1\bin\javaw.exe (Jul 22, 2021, 11:00:03 PM - 11:00:07 PM)
Connected to Hospital_DB successfully.
Foreign Keys added successfully.