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#include <iostream>
#include <occi.h>

using oracle::occi::Environment;
using oracle::occi::Connection;
using namespace oracle::occi;
using namespace std;

int main(void) {
    /* OCCI Variables */
    Environment* env = nullptr;
    Connection* conn = nullptr;

    /* Used Variables */
    string user = "dbs211_232naa49";
    string pass = "21187162";
    string constr = "myoracle12c.senecacollege.ca:1521/oracle12c";

    try {
        env = Environment::createEnvironment(Environment::DEFAULT);
        conn = env->createConnection(user, pass, constr);

        Statement* stmt = conn->createStatement();

        // Execute and print the first report
        ResultSet* rs1 = stmt->executeQuery("SELECT E.EMPLOYEEID, E.FIRSTNAME, E.LASTNAME, O.PHONE, E.EXTENSION FROM RETAILEMPLLOYEES E
JOIN RETAILOFFICES O ON E.OFFICECODE = O.OFFICECODE WHERE E.OFFICECODE = 1 ORDER BY E.EMPLOYEEID");
        cout << "----- Report 1 (Employee Report) -----" << endl;
        cout << "Employee ID      First Name      Last Name      Phone      Extension" << endl;
        cout << "-----" << endl;
        while (rs1->next()) {
            int employeeNumber = rs1->getInt(1);
            string firstName = rs1->getString(2);
            string lastName = rs1->getString(3);
            string phone = rs1->getString(4);
            string extension = rs1->getString(5);

            const int COLUMN_WIDTH = 19;

            cout.width(COLUMN_WIDTH - 5);
            cout << left << employeeNumber;
            cout.width(COLUMN_WIDTH);
            cout << left << firstName;
            cout.width(COLUMN_WIDTH);
            cout << left << lastName;
            cout.width(COLUMN_WIDTH - 1);
            cout << left << phone;
            cout.width(COLUMN_WIDTH);
            cout << left << extension;
            cout << endl;
        }

        // Execute and print the second report
        ResultSet* rs2 = stmt->executeQuery("SELECT DISTINCT E.EMPLOYEEID, E.FIRSTNAME, E.LASTNAME, O.PHONE, E.EXTENSION FROM
RETAILEMPLLOYEES E JOIN RETAILEMPLLOYEES M ON E.EMPLOYEEID = M.REPORTSTO JOIN RETAILOFFICES O ON E.OFFICECODE = O.OFFICECODE ORDER BY E.
EMPLOYEEID");

        cout << endl;
        cout << "----- Report 2 (Manager Report) -----" << endl;
        cout << "Employee ID      First Name      Last Name      Phone      Extension" << endl;
        cout << "-----" << endl;
        while (rs2->next()) {
            int employeeNumber = rs2->getInt(1);
            string firstName = rs2->getString(2);
            string lastName = rs2->getString(3);
            string phone = rs2->getString(4);
            string extension = rs2->getString(5);

            const int COLUMN_WIDTH = 19;

            cout.width(COLUMN_WIDTH - 5);
            cout << left << employeeNumber;
            cout.width(COLUMN_WIDTH);
            cout << left << firstName;
            cout.width(COLUMN_WIDTH);
            cout << left << lastName;
            cout.width(COLUMN_WIDTH - 1);
            cout << left << phone;
            cout.width(COLUMN_WIDTH);
            cout << left << extension;
            cout << endl;
        }
    }
}

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// Terminate statements and close connections
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conn->terminateStatement(stmt);
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}  
catch (SQLException& sqlExcp) {  
    cout << sqlExcp.getErrorCode() << ": " << sqlExcp.getMessage();  
}
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return 0;
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}
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