#include <iostream>

#include <mysql/mysql.h>

#include <stdio.h>

int main() {

    MYSQL \*conn;

    MYSQL\_RES \*res;

    MYSQL\_ROW row;

    // Initialize the MySQL connection

    conn = mysql\_init(NULL);

    // Connect to the MySQL server

    if (mysql\_real\_connect(conn, "your\_host", "your\_username", "your\_password", "your\_database", 0, NULL, 0) == NULL) {

        fprintf(stderr, "Failed to connect to MySQL: %s\n", mysql\_error(conn));

        return 1;

    }

    // Execute the SELECT query

    if (mysql\_query(conn, "your\_query") != 0) {

        fprintf(stderr, "Failed to execute query: %s\n", mysql\_error(conn));

        mysql\_close(conn);

        return 1;

    }

    // Get the result set

    res = mysql\_store\_result(conn);

    if (res == NULL) {

        fprintf(stderr, "Error fetching result set: %s\n", mysql\_error(conn));

        mysql\_close(conn);

        return 1;

    }

    // Iterate over the result set and print the data

    while ((row = mysql\_fetch\_row(res)) != NULL) {

        for (unsigned int i = 0; i < mysql\_num\_fields(res); i++) {

            printf("%s ", row[i] ? row[i] : "NULL");

        }

        printf("\n");

    }

    // Free the result set

    mysql\_free\_result(res);

    // Close the MySQL connection

    mysql\_close(conn);

    return 0;

}