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import ibm_db

# Replace these values with your actual database credentials
conn_str = "DATABASE=mydb;HOSTNAME=myhost;PORT=myport;UID=myuser;PWD=mypassword;"

try:
    # Connect to the database
    conn = ibm_db.connect(conn_str, "", "")
    if conn:
        # Define your SQL query
        sql_query = "SELECT * FROM your_table WHERE some_condition"

        # Execute the query
        stmt = ibm_db.exec_immediate(conn, sql_query)

        # Fetch and process the results
        data = []
        while ibm_db.fetch_row(stmt):
            # Adjust this part according to your table's columns
            column1_value = ibm_db.result(stmt, 0)
            column2_value = ibm_db.result(stmt, 1)
            data.append((column1_value, column2_value))

        # Perform additional data processing (e.g., statistics, filtering, etc.)
        processed_data = []
        for row in data:
            # Add your data processing logic here
            processed_row = (row[0], row[1], row[0] + row[1])
            processed_data.append(processed_row)

        # Print or save the processed data
        for processed_row in processed_data:
            print(f"Column 1: {processed_row[0]}, Column 2: {processed_row[1]}, Sum: {processed_row[2]}")

    else:
        print("Connection failed.")
except Exception as e:
    print(f"Error: {str(e)}")
finally:
    if conn:
        ibm_db.close(conn)

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