DBMS MINI PROJECT GROUP 7

APPLICATION INTEGRATIONS

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Run your SQL query from the browser (use DB-book online SQL website):

- We used this website to run our sql query https://www.db-book.com/db7/university-lab-dir/sqljs.html
- > Joins and nested select commands are executed in this DB-book.
- In this website university database has been preloaded.

Sample Query:

SELECT "Student names with department and their instructors";

SELECT

student.ID,student.name,student.dept_name,instructor.ID,instructor.name

FROM (student INNER JOIN advisor ON student.Id = advisor.s_ID)

LEFT JOIN instructor ON instructor.ID = advisor.i_ID

ORDER BY student.ID;

Sample Output:

"Student names with department and their instructors"
Student names with department and their instructors

ID	name	dept_name	ID	name
00128	Zhang	Comp. Sci.	45565	Katz
12345	Shankar	Comp. Sci.	10101	Srinivasan
23121	Chavez	Finance	76543	Singh
44553	Peltier	Physics	22222	Einstein
45678	Levy	Physics	22222	Einstein
76543	Brown	Comp. Sci.	45565	Katz
76653	Aoi	Elec. Eng.	98345	Kim
98765	Bourikas	Elec. Eng.	98345	Kim
98988	Tanaka	Biology	76766	Crick



Access your MYSQL DB from a simple python program:

> Step 1: Database connectivity

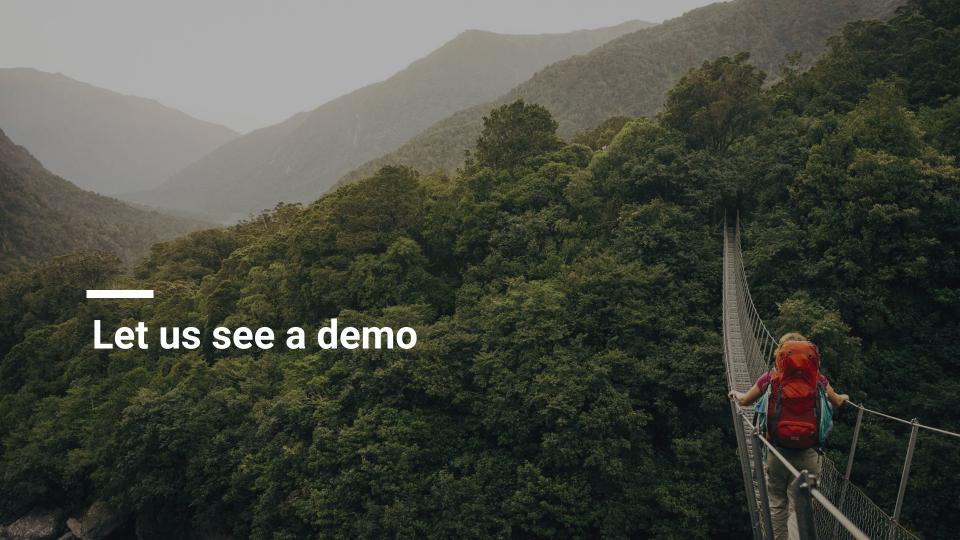
Method 1:

In Anaconda prompt Type "pip install mysql-connector-python" and execute it.

Anaconda Prompt (anaconda3)

Method 2:

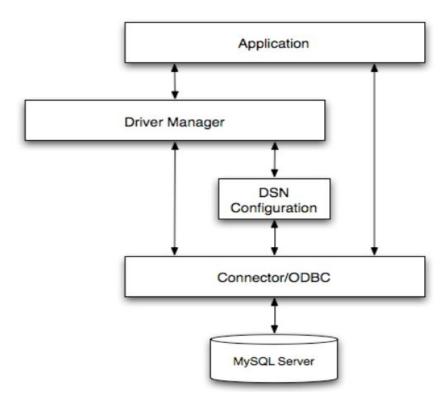
In Anaconda prompt Type "conda install -c anaconda mysql-connector-python" and execute it.



ODBC- *O*pen *D*atabase Connectivity



Architecture of ODBC



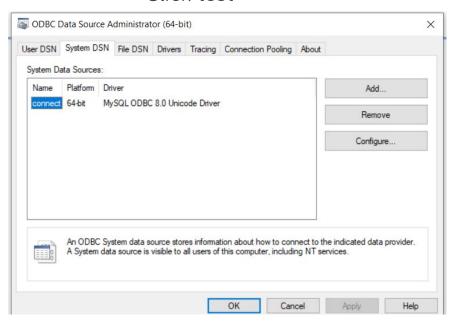
Demonstrate how your local programs run over ODBC to access DB

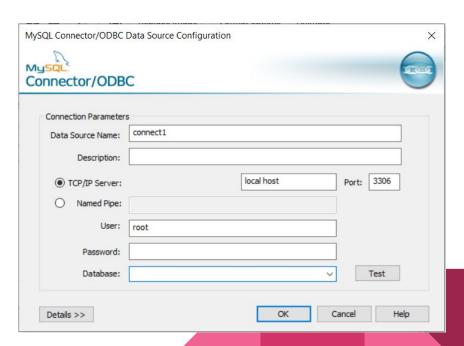
Step 1: Install odbc connector from the website https://dev.mysql.com/downloads/connector/odbc/



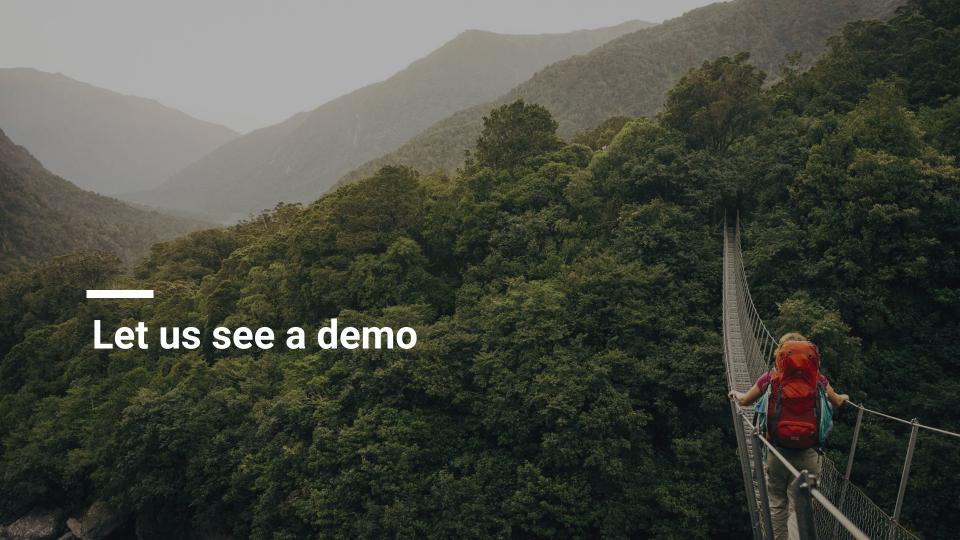
> Step 2: Set the system DSN

- Click add and set a DSN name
- After filling the fields and select our database
- Click test





```
(base) PS C:\Users\user> conda install -c anaconda pyodbc
Collecting package metadata (current repodata.ison): done
Solving environment: done
## Package Plan ##
 environment location: C:\Users\user\anaconda3
 added / updated specs:
    pvodbc
The following packages will be downloaded:
   package
                                    build
   ca-certificates-2020.10.14
                                                 159 KB anaconda
   openssl-1.1.1h
                                he774522 0
                                                 5.8 MB anaconda
   pyodbc-4.0.30
                             py38ha925a31 0
                                                 73 KB anaconda
                                                6.0 MB
                                    Total:
The following packages will be SUPERSEDED by a higher-priority channel:
 ca-certificates
                                          pkgs/main --> anaconda
 openss1
                                          pkgs/main --> anaconda
 pyodbc
                                          pkgs/main --> anaconda
Proceed ([y]/n)? y
Downloading and Extracting Packages
pvodbc-4.0.30
                   73 KB
ca-certificates-2020 | 159 KB
                             openssl-1.1.1h
                  5.8 MB
                             Preparing transaction: done
Verifying transaction: done
Executing transaction: done
(base) PS C:\Users\user>
```



Access MySQL DB using a simple PHP script

- Step 1: Create a HTML file and PHP file.
- > Step 2: Store the HTML and PHP files are stored in www folder which is present inside the wamp64 folder.
- > Step 3: Create a Virtual host in the localhost.

