

## Python/MySQL API

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# Chapter 1

## Namespace Index

### 1.1 Packages

Here are the packages with brief descriptions (if available):

<b>PDBAPI</b> . . . . .	5
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## Chapter 2

# File Index

### 2.1 File List

Here is a list of all documented files with brief descriptions:

**PDBAPI.py**

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## Chapter 3

# Namespace Documentation

### 3.1 PDBAPI Namespace Reference

#### Functions

- def **insert** (cnx, cursor, inOrOut)
- def **dbConnect** ()

#### 3.1.1 Detailed Description

This file is the Python API that allows the Arduino to communicate with the database. It allows one way communication from the Arduino pushing data to the database. `dbConnect()` must be called before `insert` will work. Otherwise, it will throw an exception (that gets caught within the function itself).

#### 3.1.2 Function Documentation

##### 3.1.2.1 def PDBAPI.dbConnect( )

Connects to the database using my credentials and the mysql password. Will print out a string depending on the status of the connection i.e.: whether it failed or not and why.  
:return:

##### 3.1.2.2 def PDBAPI.insert( *cnx*, *cursor*, *inOrOut* )

This function inserts an entry into the database. Will insert the location (should be the Student Recreation Center but can be changed), a boolean value as to whether the subject exited or entered, the day of the week in number format (using the `mysql dayofweek(now())` function) and a DateTime stamp (using `mysql now()` function)  
:param cnx:  
:param cursor:  
:param inOrOut: True=In, False=Out  
:return: Boolean



## Chapter 4

# File Documentation

### 4.1 PDBAPI.py File Reference

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#### Namespaces

- **PDBAPI**

#### Functions

- def **PDBAPI.insert** (cnx, cursor, inOrOut)
- def **PDBAPI.dbConnect** ()

#### 4.1.1 Detailed Description

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