



PYTHON

User Manual for Data.py (Mac User)

```
<title %} | welcome {% endblock title %}  
<content %}  
  
nowcase -->  
<div id="showcase">  
<div class="container text-center">  
<div class="home-search p-5">  
<div class="overlay p-5">  
<h1 class="display-4 mb-4">Property S  
<p class="lead">  
    Lorem ipsum dolor sit, amet consectetur  
    Recusandae quas, asperiores eveniet  
    tempore! Consectetur, id commodi!  
</p>  
<div class="search">  
    <form action={% url 'listings:search'  
        <!-- Form Row 1 -->  
        <div class="form-row">  
            <div class="col-md-4 mb-3">  
                <label class="sr-only">Keyword  
                <input  
                    type="text"  
                    name="keywords"  
                    class="form-control"  
                    placeholder="Keyword (Bathr  
                />  
            </div>  
            <div class="col-md-4 mb-3">  
                <label class="sr-only">title
```

- A comprehensive guide for Mac users.
- Learn to execute the Data.py program.
- Step-by-step data import and export instructions.
- Understand relational database concepts.
- Tips for Python users.

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User Manual for Data.py

(Exclusive for Mac User)

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Trouble Shooting

- **Python version:**
3.10.17
- **Install:**
PostgreSQL
psycopg2
- **Connection to ‘dishdb’ Database:**
 - host=“localhost”
 - dbname=“dishdb”
 - user=“postgres”
 - password=‘jkl’

2. Relational Database Explanation

2.1 One-to-One Relationship

In one-to-one relationship, each user can have exactly one foodie profile, and each foodie profile belong to exactly one user.

2.2 One to-One Characteristics

Data Integrity:

- Each auth_user.id can appear only once in foodie.user_id
- No duplicate user_id values allowed in foodie table.
- Optional relationship (user may or may not have a foodie profile).

One to-One Relationship of Auth_user and Foodie Table

Auth_user table

	id [PK] integer	password character varying	last_login timestamp with time zone	is_superuser boolean	username character varying	first_name character varying	last_name character varying	email character varying	is_staff boolean	is_active boolean	date_joined timestamp with time zone
1	1	pbkdf2_s...	2025-06-...	true	mt	Mandy	Tang	mand...	true	true	2025-06-17 14:20:52.598948+08
2	2	pbkdf2_s...	2025-06-...	false	tomtom	Tom	Lam	tomc...	false	true	2025-06-20 23:29:28.352771+08
3	3	pbkdf2_s...	2025-06-...	false	kellychan	kelly	Lam	kellyc...	false	true	2025-06-20 23:37:41.27739+08
4	4	pbkdf2_s...	2025-06-...	false	foodie1	foodie	Lam	foodi...	false	true	2025-06-21 16:06:25.615224+08
5	5	pbkdf2_s...	2025-06-...	false	foodie2	foodie2	food	foodi...	false	true	2025-06-23 21:25:55.888108+08

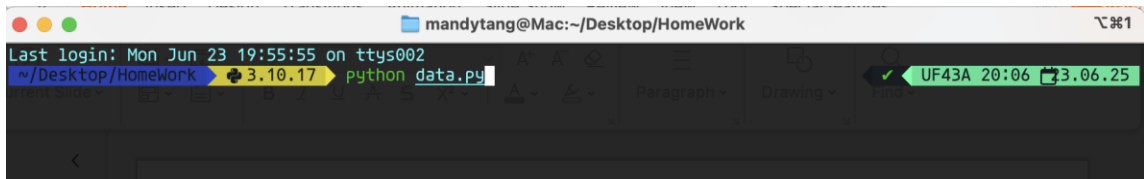
	id [PK] big integer	foodie_name character varying	updated_date timestamp with time zone	gender character	age_range character varying	occu...	foodie_desc character varying	foodie_photo character varying	is_mvp boolean	user_id integer
1	1	kellychan	2025-06-21 0...	Female	36-45	offic	Executive f...	foodie_Ph...	false	3
2	2	tomtom	2025-06-21 0...	Male	46-55	othe	AAA	foodie_Ph...	false	2
3	3	foodie1	2025-06-21 1...	Male	36-45	offic	AAA	foodie_Ph...	false	4
4	4	foodie2	2025-06-23 2...	Male	18-25	offic	AAA	foodie_Ph...	false	5

Foodie table

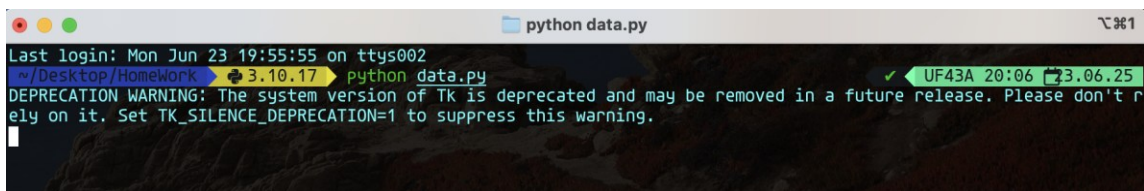
Important note: In Data.py, import and export data from the above tables will be in pairs.

3. Execute the Data.py Program

3.1 Open the vs code, type: python data.py



A terminal window titled 'mandytang@Mac:~/Desktop/HomeWork' with a terminal icon. The prompt is '~/.Desktop/HomeWork >'. The user has entered 'python data.py'. The terminal shows the last login as 'Mon Jun 23 19:55:55 on ttys002'. A status bar at the bottom shows 'UF43A 20:06 23.06.25'.

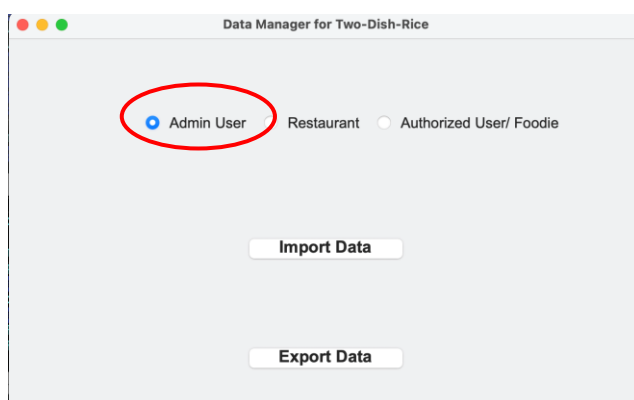


A terminal window titled 'python data.py' with a terminal icon. The prompt is '~/.Desktop/HomeWork >'. The user has entered 'python data.py'. The terminal shows the last login as 'Mon Jun 23 19:55:55 on ttys002'. The output is 'DEPRECATION WARNING: The system version of TK is deprecated and may be removed in a future release. Please don't rely on it. Set TK_SILENCE_DEPRECATION=1 to suppress this warning.' A status bar at the bottom shows 'UF43A 20:06 23.06.25'.

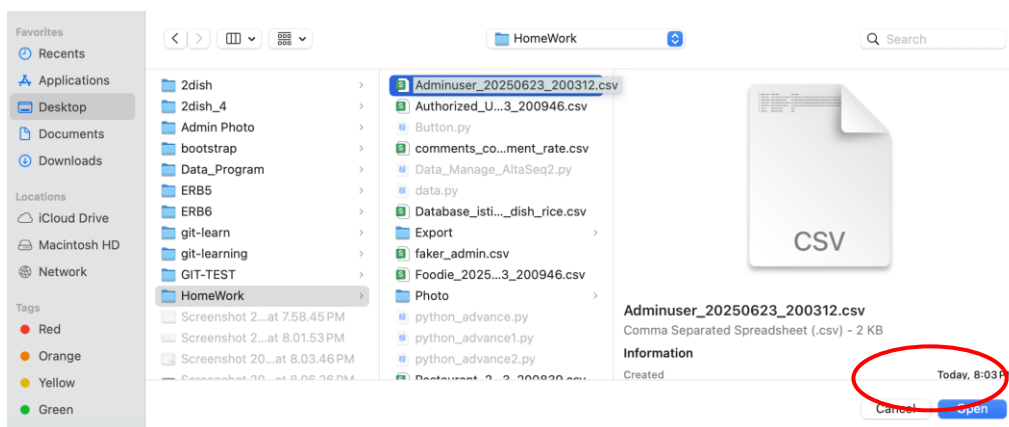
4. Import Data into the Database

4.1 Import data into the ‘Admin User’ Table

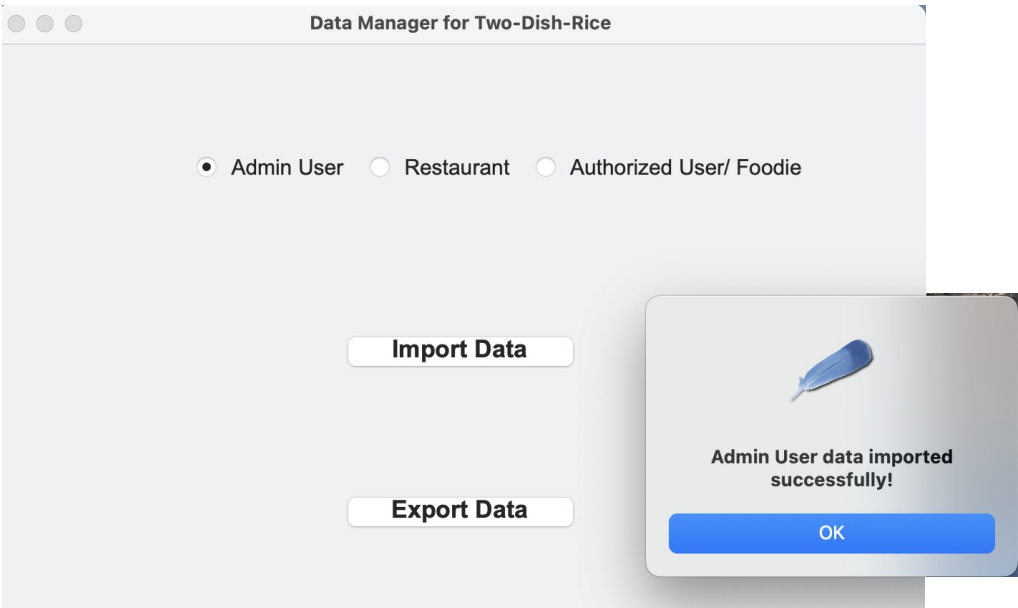
4.1.1 Click the ‘Admin User’ option button, then click the ‘Import Data’ button.



4.1.2 Select the desired file (e.g. adminuser.csv) from the browser then click ‘Open’.



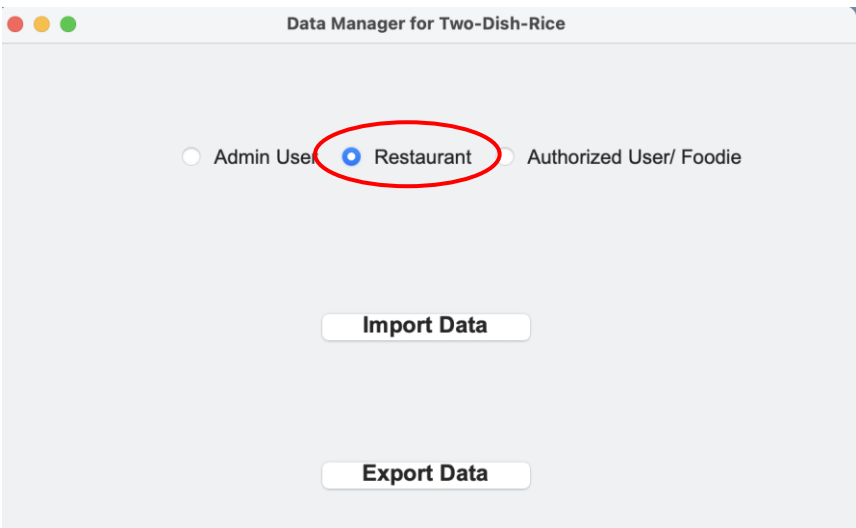
4.1.3 After the data import is completed, a message ‘Admin User data imported successfully!’ will pop up.



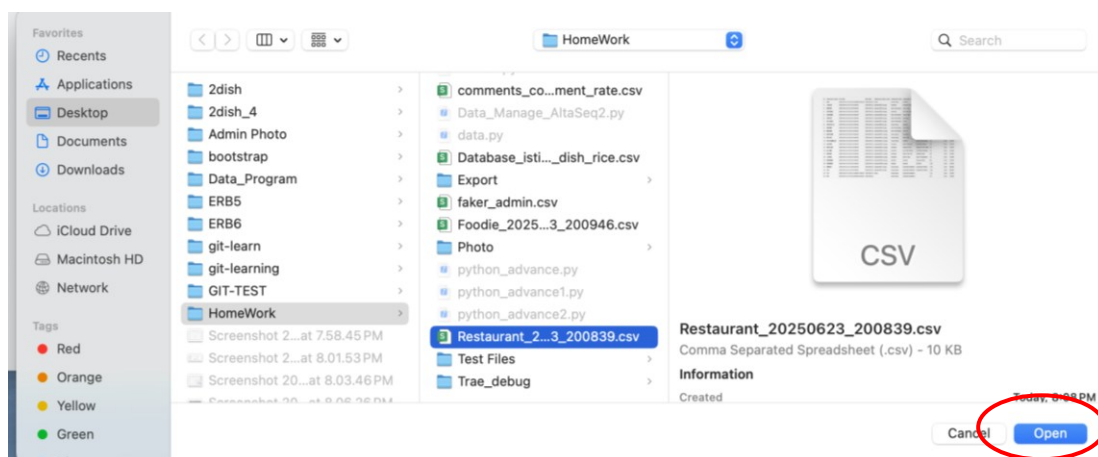
4.1.5 Click ‘OK’ to close the message box and the main GUI.

4.2 Import data into the ‘Restaurant’ Table

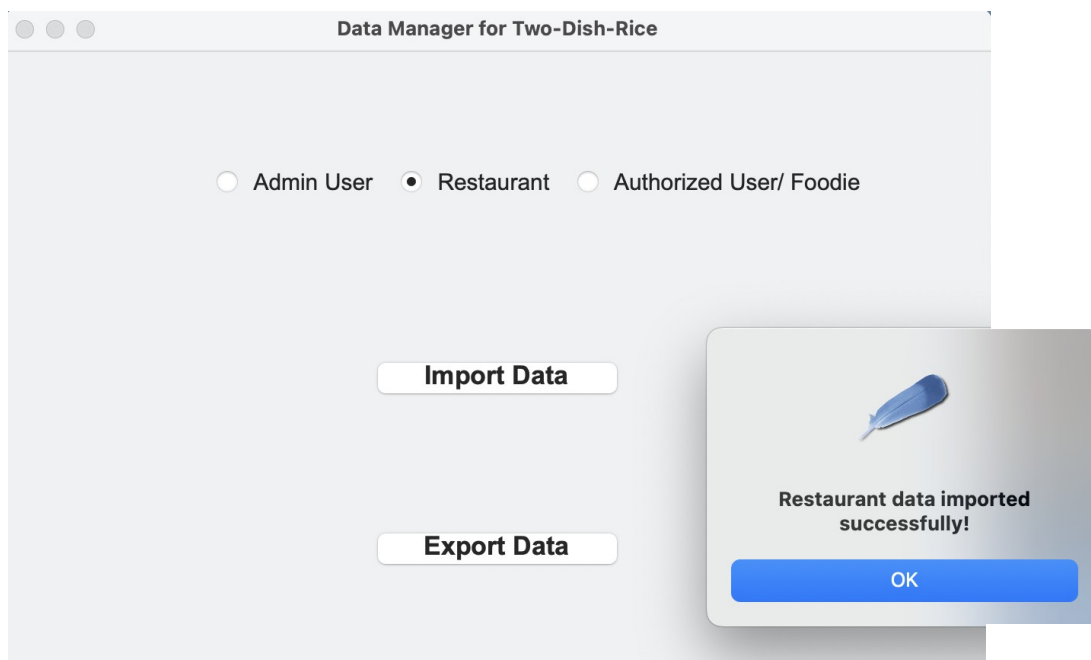
4.2.1 Click the ‘Restaurant’ option button, then click the ‘Import Data’ button.



4.2.2 Select the desired file (e.g. restaurant.csv) from the browser, then click ‘Open’.



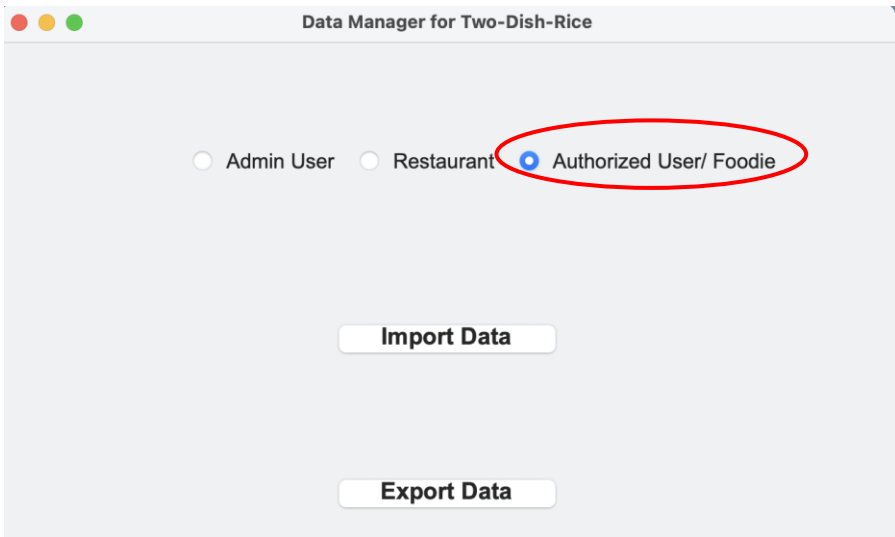
4.2.3 After the data import is completed, a message ‘Restaurant data imported successfully!’ will pop up.



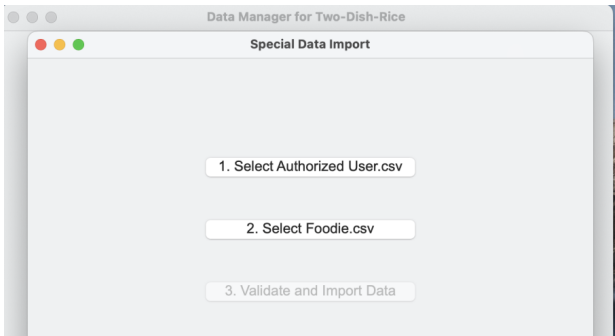
4.2.4 Click ‘OK’ to close the message box and the GUI.

4.3 Import data into the ‘Admin User/ Foodie’ Table

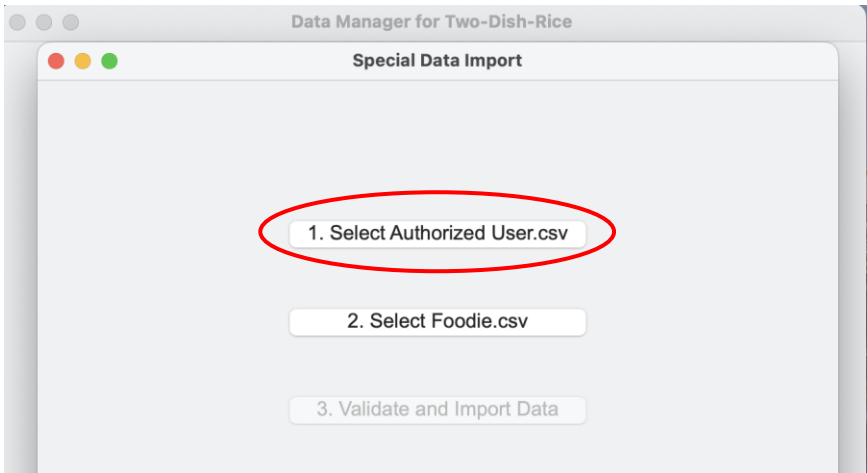
4.3.1 Click the ‘Authorized User/ Foodie’ option button, then click the ‘Import Data’ button.



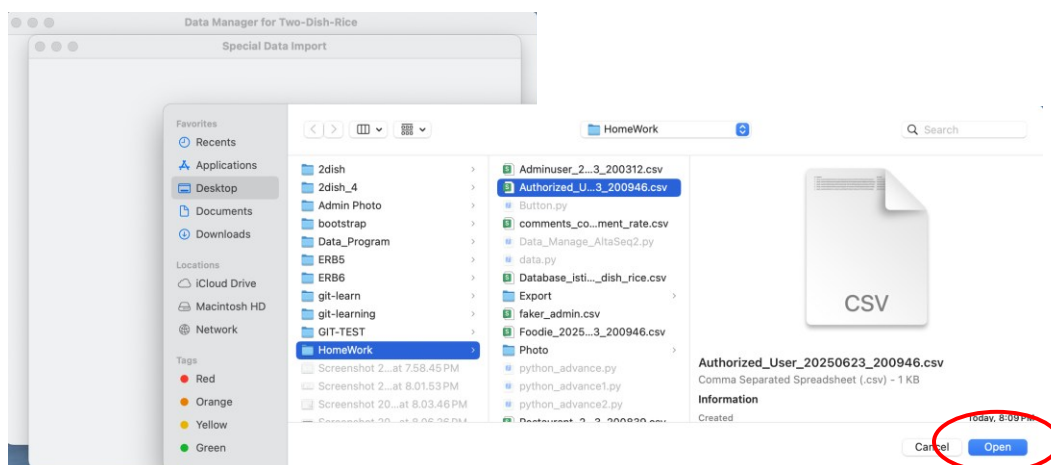
4.3.2 A new GUI will pop up.



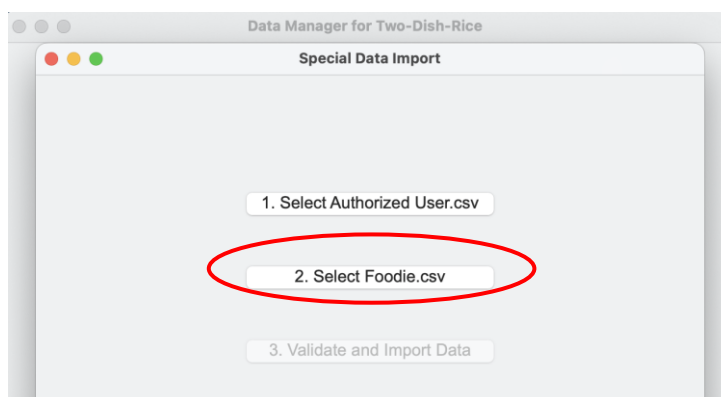
4.3.3 Click the ‘1. Authorized User.csv’ button.



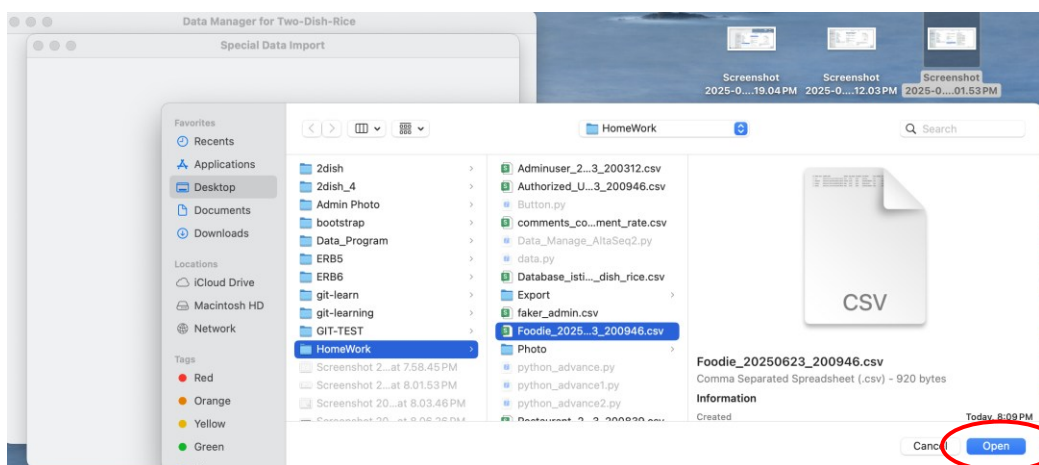
4.3.4 Select the desired file (e.g. authorized_user.csv) from the browser, then click ‘Open’.



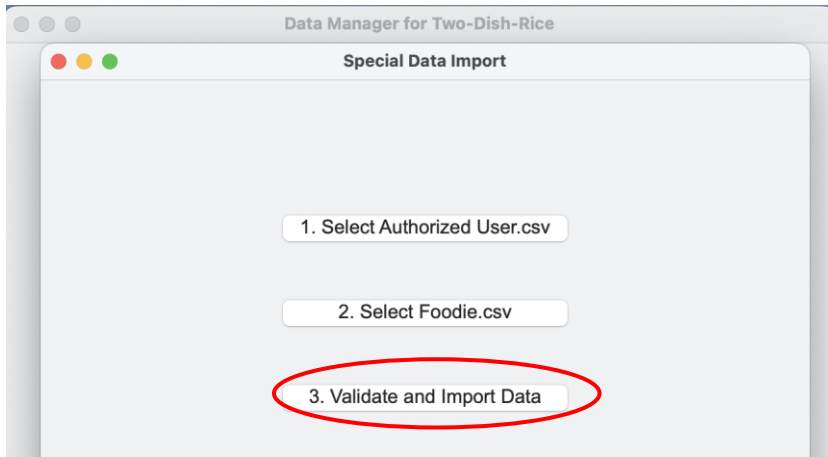
4.3.5 Click the ‘2. Select Foodie.csv’ button.



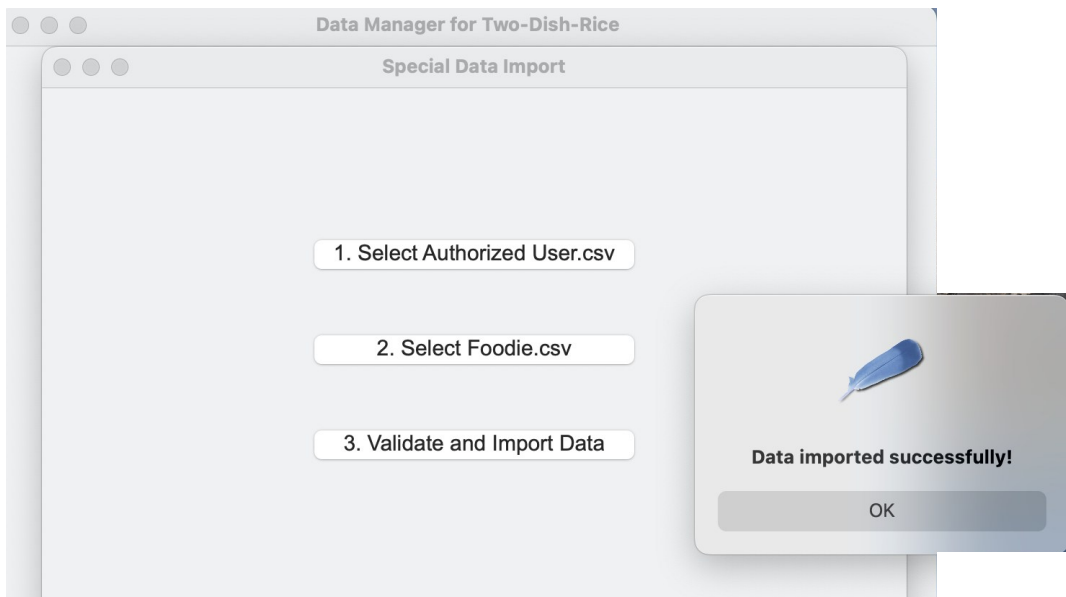
4.3.6 Select the desired file (e.g. foodie.csv) from the browser, then click ‘Open’.



4.3.7 Click the ‘3. Validate and Import Data’ button.



4.3.8 After the data import is completed, a message ‘Data imported successfully!’ will pop up.



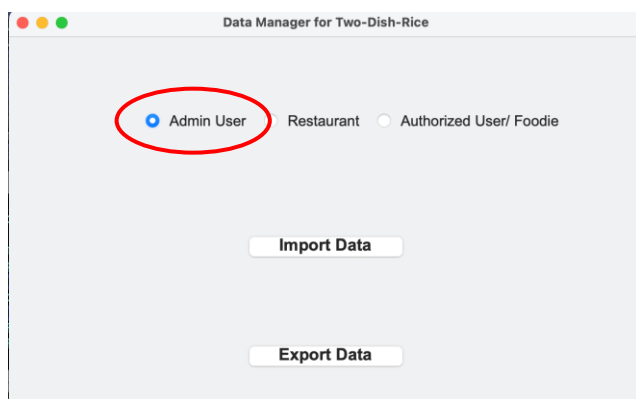
4.3.9 Click ‘OK’ to close the message box.

4.3.10 Close the main GUI.

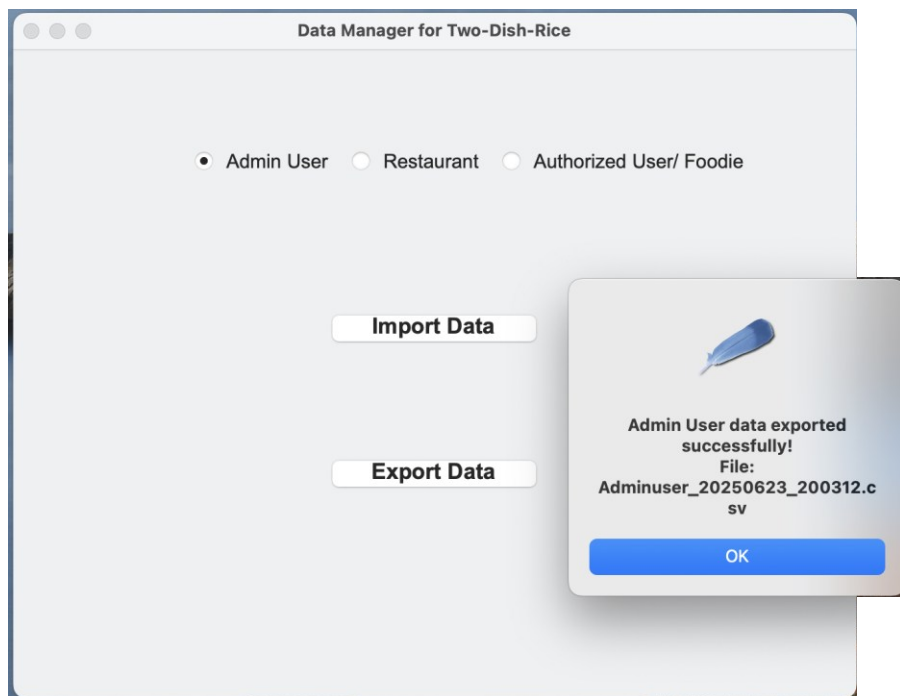
5. Export Data from the Database

5.1 Export data from the ‘Admin User’ Table

5.1.1 Click the ‘Admin User’ option button, then click the ‘Export Data’ button.



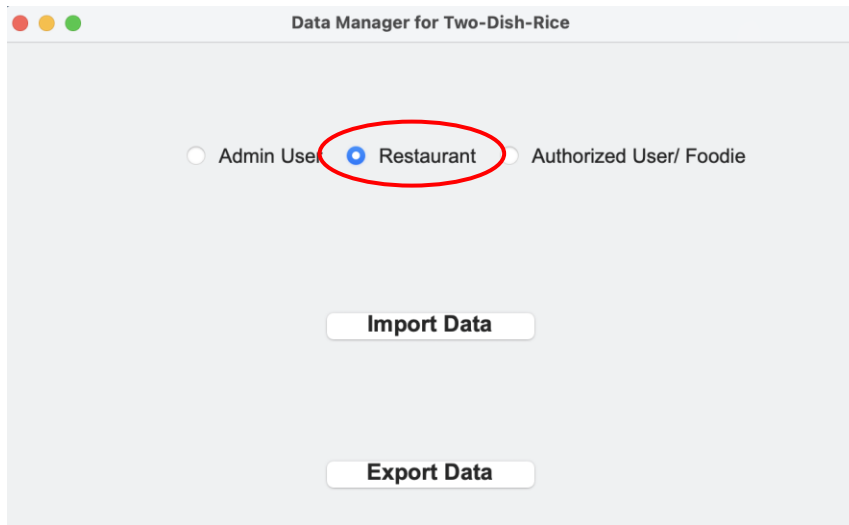
5.1.2 After the data is exported, a message ‘Admn User data exported successfully! File: Adminuser_date_time.csv ’ will pop up.



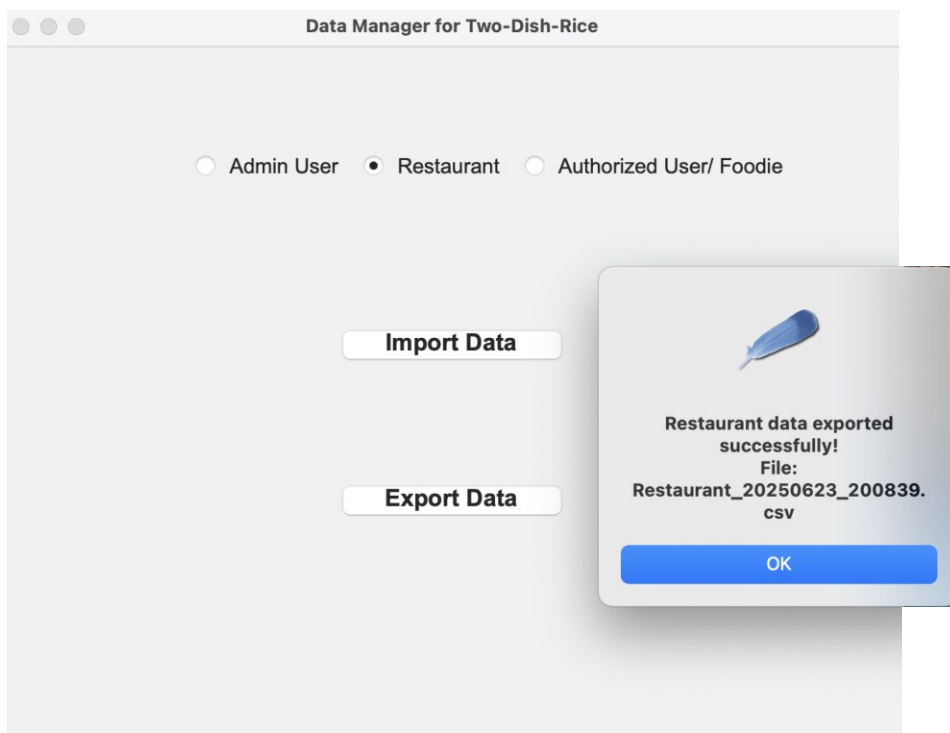
5.1.3 Click ‘OK’ to close the message box.

5.2 Export data from the ‘Restaurant’ Table

5.2.1 Click the ‘Admin User’ option button, then click the ‘Export Data’ button.



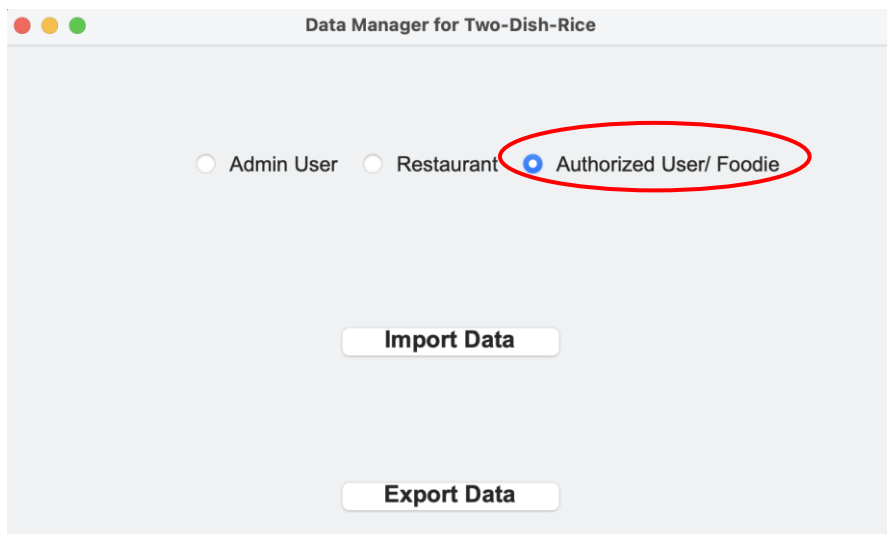
5.2.2 After the data is exported, a message ‘Restaurant data exported successfully! File: Adminuser_date_time.csv ’ will pop up.



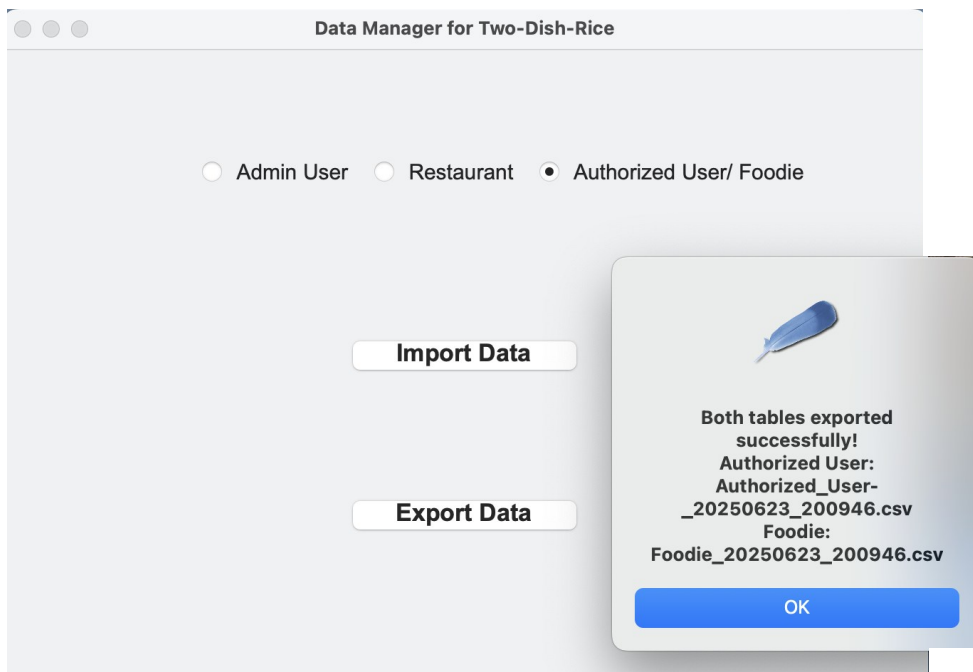
5.2.3 Click ‘OK’ to close the message box.

5.3 Export data from the ‘Authorized User/ Foodie’ Table

5.3.1 Click the ‘Authorized User/ Foodie’ option button, then click the ‘Export Data’ button.



5.3.2 After data exported, a message ‘Both tables exported successfully. Authorized User: Authorized_User_date_time.csv Foodie: Foodie_date_time.csv’ pop up.



5.3.3 Click ‘OK’ to close the message box and the GUI.

6. Trouble Shooting

- For troubleshooting Python-related issues, it is recommended to attend the relevant ERB course.

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