

## 1. Set Up a Virtual Environment

```
PS D:\W3\W3-Ass08-Scrapy> python -m venv venv
PS D:\W3\W3-Ass08-Scrapy> venv\Scripts\activate
(venv) PS D:\W3\W3-Ass08-Scrapy> cd travelscraper
(venv) PS D:\W3\W3-Ass08-Scrapy> docker-compose build
[+] Building 5.8s (12/12) FINISHED                docker:desktop-linux
```

**Commented [AS1]:** If you are using Linux/macOS then run the following command:  
`source venv/bin/activate`

```
=> [scraper] resolving provenance for metadata file      0.0s
(venv) PS D:\W3\W3-Ass08-Scrapy> docker-compose up
[+] Running 2/2
 ✓ Container travelscraper-db-1      Created            0.0s
 ✓ Container travelscraper-scraper-1 Recreated         1.2s
Attaching to db-1, scraper-1
db-1 | PostgreSQL Database directory appears to contain a database; Skipping initialization
UTC [27] LOG:  database system was interrupted; last known up at 2024-12-15 15:20:53 UTC
db-1 | 2024-12-16 13:44:19.172 UTC [27] LOG:  database system was not properly shut down; automatic recovery in progress
db-1 | 2024-12-16 13:44:19.177 UTC [27] LOG:  redo starts at 0/1744F10B-1 | 2024-12-16 13:44:19.182 UTC [27] LOG:  invalid reco
rd length at 0/17523C0: wanted 24, got 0
db-1 | 2024-12-16 13:44:19.182 UTC [27] LOG:  redo done at 0/1752388 system usage: CPU: user: 0.00 s, system: 0.00 s, elapsed: 0.00 s
db-1 | 2024-12-16 13:44:19.256 UTC [1] LOG:  database system is ready to accept connections
scraper-1 exited with code 0
[]
```

## 2. Viewing Database Tables in the Docker Container (In a new Terminal)

```
• PS D:\W3\W3-Ass08-Scrapy> venv\Scripts\activate
• (venv) PS D:\W3\W3-Ass08-Scrapy> cd travelscraper
• (venv) PS D:\W3\W3-Ass08-Scrapy> docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
28d900d2f105   postgres:14   "docker-entrypoint.s..." 2 days ago    Up 50 minutes  5432/tcp       travelscraper-db-1
• (venv) PS D:\W3\W3-Ass08-Scrapy> docker exec -it travelscraper-db-1 bash
root@28d900d2f105:/# psql -U username -d hotels_data
psql (14.15 (Debian 14.15-1.pgdg120+1))
Type "help" for help.

hotels_data=#

• (venv) PS D:\W3\W3-Ass08-Scrapy> docker exec -it travelscraper-db-1 bash
root@28d900d2f105:/# psql -U username -d hotels_data
psql (14.15 (Debian 14.15-1.pgdg120+1))
Type "help" for help.

hotels_data=# \dt
          List of relations
 Schema | Name  | Type  | Owner
-----+-----+-----+-----
 public | hotels | table | username
(1 row)

hotels_data=# SELECT * FROM hotels;[]
```

id	city_id	hotel_id	hotel_img	location	latitude	longitude	rating	hotel_name	room_type	price
1				Sea Pearl Beach Resort & Spa Cox's Bazar						125
070g00000083884DEC2_R_250_250_R5_D.jpg_.webp					21.215649	92.048894	4.1	Superior Room		images/22
2				Mermaid Beach Resort						469
81a12000cs8xcuy4297_R_250_250_R5_D.jpg_.webp				Honeymoon Villa, 1 King Bed, Sea View, Sea Facing	21.311847	92.043483	3.5	Ramu Upazila		images/05
3				La Vista Hotel						26
86112000csbomz618CF_R_250_250_R5_D.jpg_.webp				Deluxe Double Room			4			images/05

### 3. Code coverage (In a new Terminal)

```
(venv) PS D:\W3\W3-Ass08-Scrapy\travelscraper> pip install coverage requests sqlalchemy

(venv) PS D:\W3\W3-Ass08-Scrapy\travelscraper> coverage run --unittest tests\test.py
Failed to download image https://invalid-url/test.jpg: HTTPSPool(host='invalid-url', port=443): Max retries exceeded with url: /test.jpg (Caused by NameResolutionError("<urllib3.connection.HTTPSConnection object at 0x000001B0991402B0>: Failed to resolve 'invalid-url' ([Errno 11001] getaddrinfo failed)"))
..
Ran 3 tests in 6.291s

OK

(venv) PS D:\W3\W3-Ass08-Scrapy\travelscraper> coverage report
Name                               Stmts  Miss  Cover
-----
tests\test.py                       44      0   100%
travelscraper\__init__.py           0      0   100%
travelscraper\items.py              22      4    82%
travelscraper\pipelines.py          33      3    91%
-----
TOTAL                               99      7    93%
(venv) PS D:\W3\W3-Ass08-Scrapy\travelscraper>
```