



Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David



Web development Workshop

June-July 2022, London, UK



Week-6

Web development Workshop

June-July 2022, London, UK

Back-end Development

- MySQL
- Python
- Django Framework





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MySQL Cluster CGE

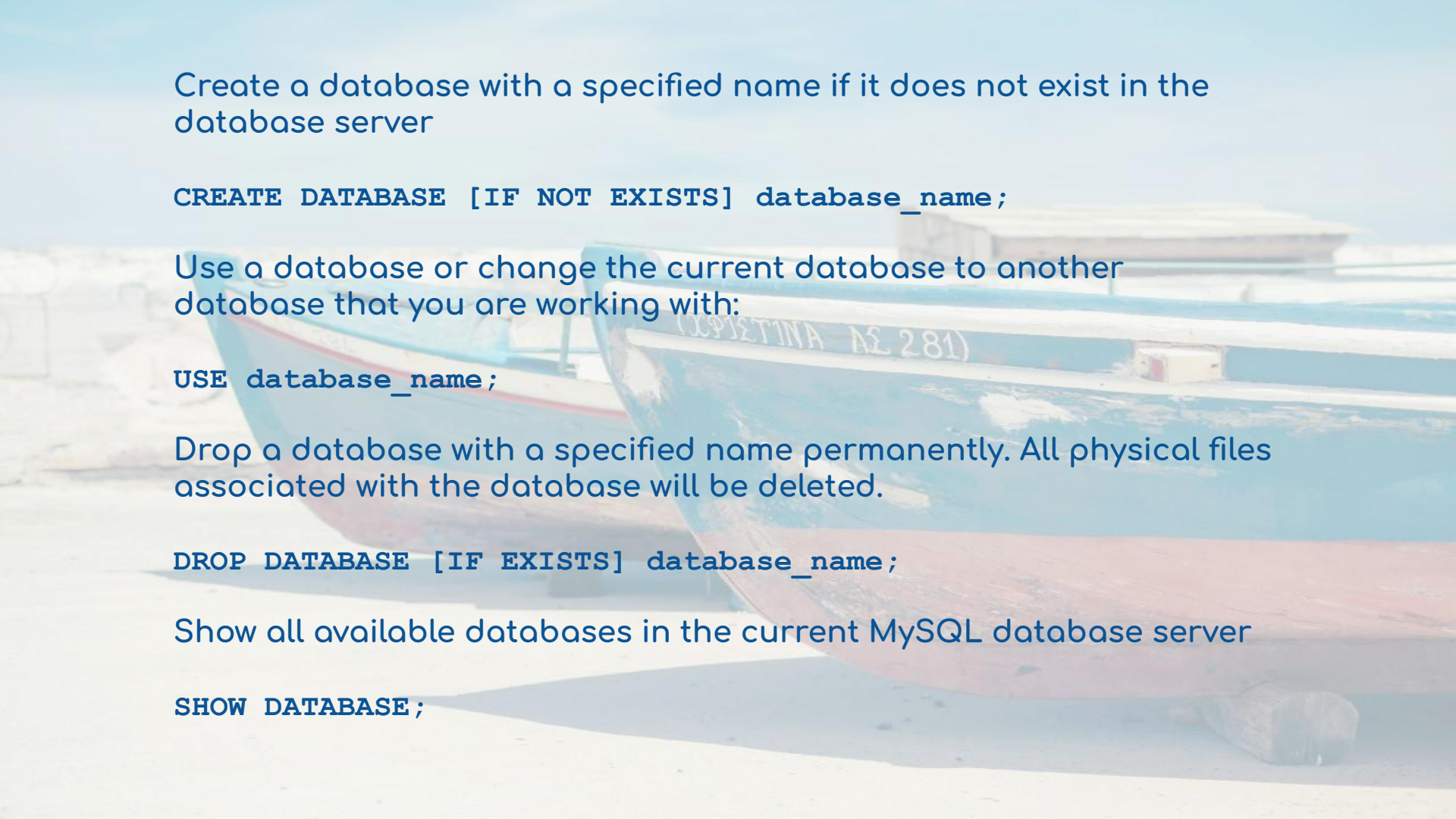
MySQL Cluster is a real-time open source transactional database designed for fast, always-on access to data under high throughput conditions.

- MySQL Cluster
- MySQL Cluster Manager
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<https://www.mysql.com/downloads/>

<https://sequel-ace.com/>

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Create a database with a specified name if it does not exist in the database server

```
CREATE DATABASE [IF NOT EXISTS] database_name;
```

Use a database or change the current database to another database that you are working with:

```
USE database_name;
```

Drop a database with a specified name permanently. All physical files associated with the database will be deleted.

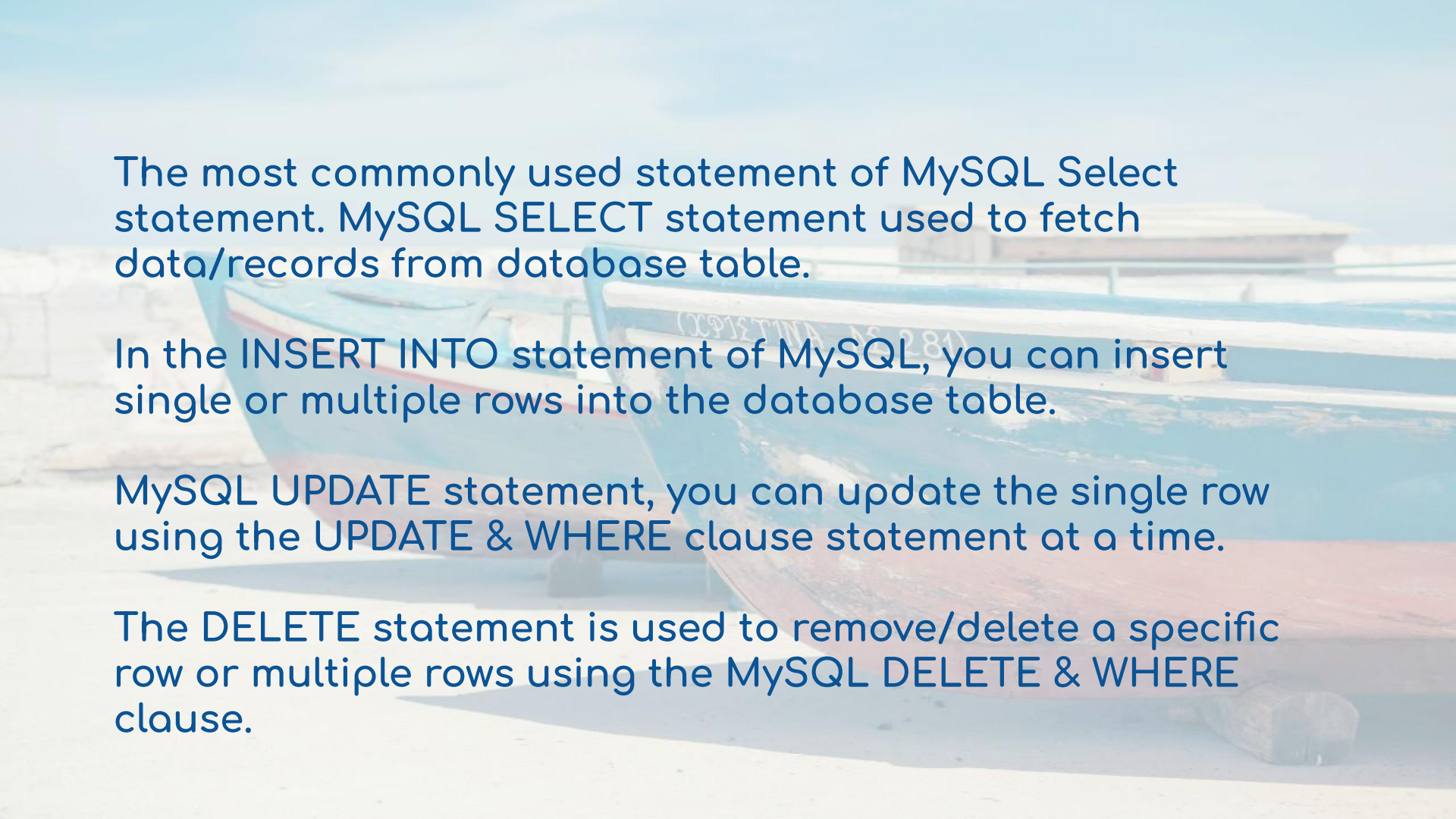
```
DROP DATABASE [IF EXISTS] database_name;
```

Show all available databases in the current MySQL database server

```
SHOW DATABASE;
```

**In MySQL How
to Insert,
Update, Delete,
Truncate Data
Tutorial**





The most commonly used statement of MySQL Select statement. MySQL SELECT statement used to fetch data/records from database table.

In the INSERT INTO statement of MySQL, you can insert single or multiple rows into the database table.

MySQL UPDATE statement, you can update the single row using the UPDATE & WHERE clause statement at a time.

The DELETE statement is used to remove/delete a specific row or multiple rows using the MySQL DELETE & WHERE clause.

INSERT INTO statement syntax is:

```
INSERT INTO table_name ( field1, field2,...fieldN )  
VALUES ( value1, value2,...valueN );
```

UPDATE statement syntax is:

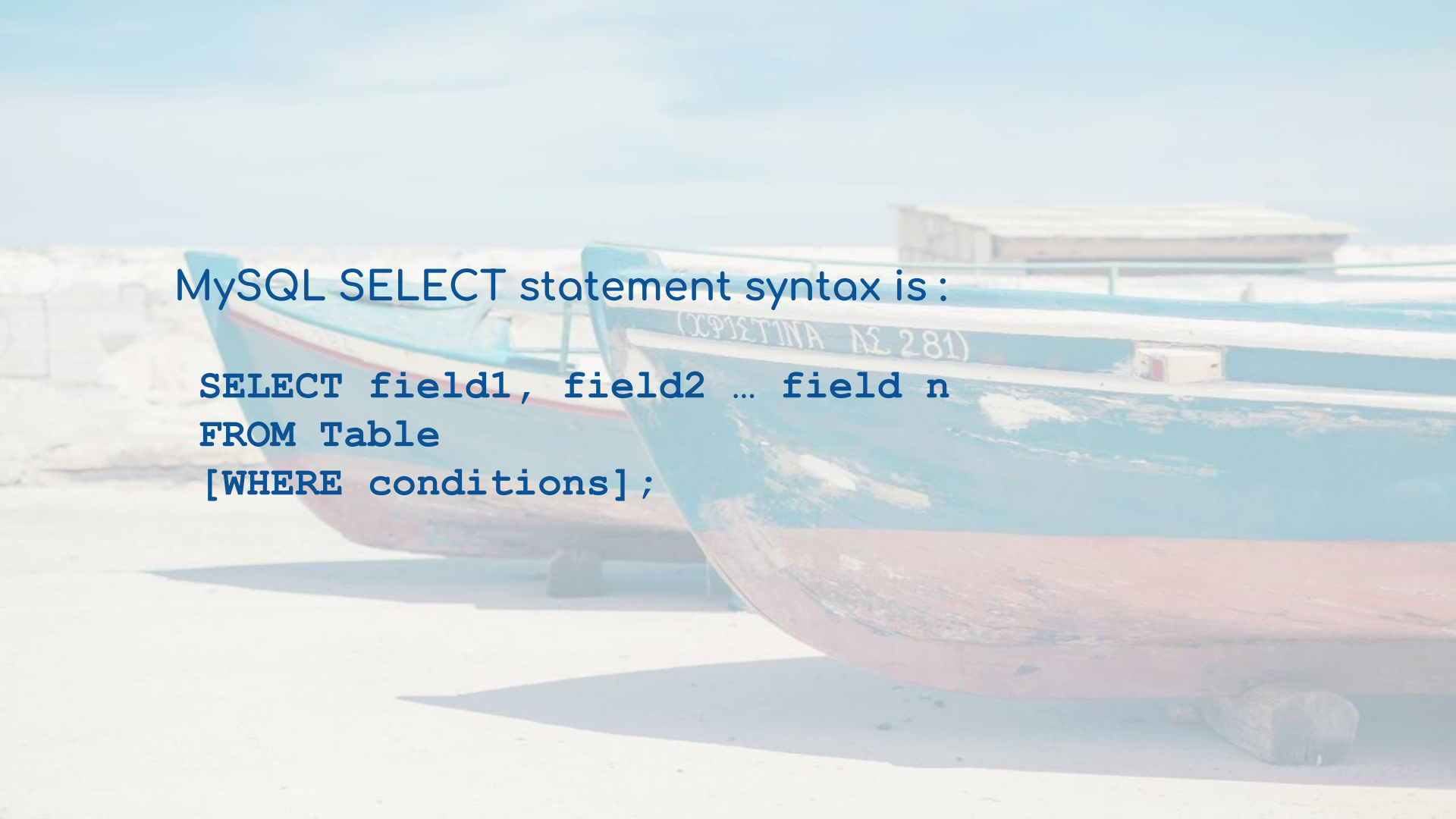
```
UPDATE table_name SET field1=new-value1, field2=new-value2  
[WHERE Clause]
```

DELETE statement syntax is:

```
DELETE FROM table_name;
```

OR

```
DELETE FROM table_name [WHERE Clause];
```

The background of the slide is a photograph of two wooden boats on a sandy beach. The boat in the foreground is painted blue and red, with the name 'ΧΡΙΣΤΙΝΑ' and the number 'ΑΣ 281' written on its side. The boat behind it is also blue and red. In the background, there is a small building and a body of water under a clear sky.

MySQL SELECT statement syntax is :

```
SELECT field1, field2 ... field n  
FROM Table  
[WHERE conditions];
```

316 lines (227 sloc) | 5.75 KB

<> Raw Blame Edit Copy Paste

Insert Row / Record

```
INSERT INTO users (first_name, last_name, email, password, location, dept, is_admin, register_date) values ('Brad', 'Trave
```

Insert Multiple Rows

```
INSERT INTO users (first_name, last_name, email, password, location, dept, is_admin, register_date) values ('Fred', 'Smit
```

Select

```
SELECT * FROM users;  
SELECT first_name, last_name FROM users;
```

Where Clause

```
SELECT * FROM users WHERE location='Massachusetts';  
SELECT * FROM users WHERE location='Massachusetts' AND dept='sales';  
SELECT * FROM users WHERE is_admin = 1;  
SELECT * FROM users WHERE is_admin > 0;
```

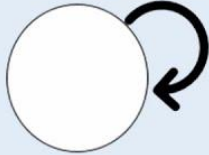
Delete Row

```
DELETE FROM users WHERE id = 6;
```

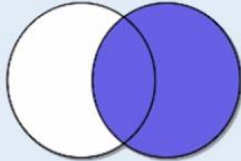
Update Row

MySQL JOINS

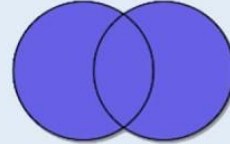
Self Join



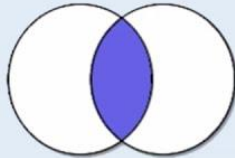
Right Join



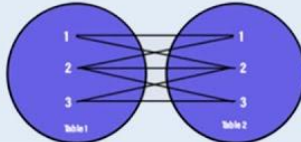
Full Join



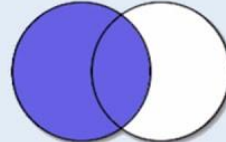
Inner Join



Cross Join



Left Join



INNER JOIN MySQL

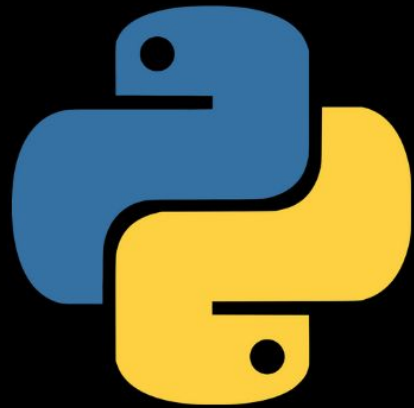
```
SELECT table1.column, table2.column  
FROM table1  
INNER JOIN table2  
ON table1.column = table2.column;
```

LEFT JOIN MySQL

```
SELECT column_name(s)  
FROM table1  
LEFT JOIN table2  
ON table1.column_name = table2.column_name;
```

Right JOIN MySQL

```
SELECT column_name(s)  
FROM table1  
Right JOIN table2  
ON table1.column_name = table2.column_name;
```



& django

Python

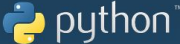
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Looking for Python 2.7? See below for specific releases



Active Python Releases

For more information visit the [Python Developer's Guide](#).

Python version	Maintenance status	First released	End of support	Release schedule
3.10	bugfix	2021-10-04	2026-10	PEP 619
3.9	security	2020-10-05	2025-10	PEP 596
3.8	security	2019-10-14	2024-10	PEP 569
3.7	security	2018-06-27	2023-06-27	PEP 537
2.7	end-of-life	2010-07-03	2020-01-01	PEP 373

Looking for a specific release?

The background of the entire image is a photograph of a beach. In the foreground, there are several small wooden boats painted in blue and red. One boat in the center has the text "(ΧΡΙΣΤΙΝΑ ΛΣ 281)" written on its side. The boats are on a sandy beach, and the ocean is visible in the background under a clear sky.

To create a virtual environment:

```
python -m venv NAMEIT
```

(where **NAMEIT** is whatever you want to call your virtual environment).

To Activate your virtualenv:

for mac/Linux:

```
source venv/Scripts/activate
```

for windows:

```
cmd.exe C:\> <venv>\Scripts\activate.bat
```

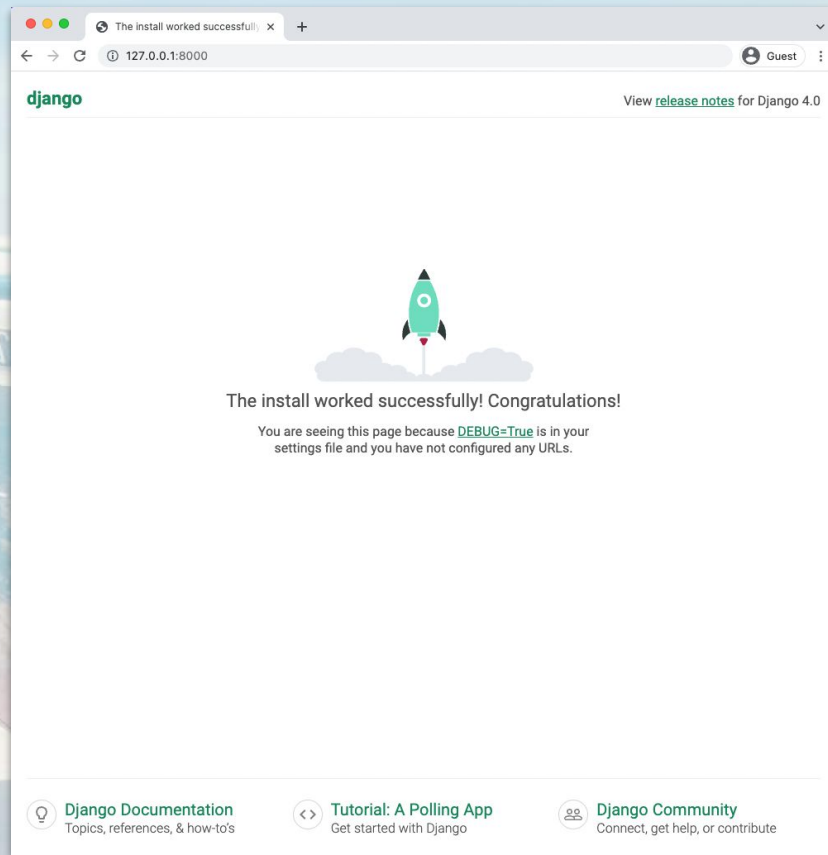
```
PowerShell PS C:\> <venv>\Scripts\Activate.ps1
```

Ref: <https://docs.python.org/3/library/venv.html>

Install django:
`pip install Django`

Start project:
`django-admin startproject <projectname>`

Run server:
`python manage.py runserver`



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UWTSD is celebrating our Bicentenary which commemorates the laying of the foundation stone for St David's College, Lampeter on 12 August 1822. Throughout the year, events and activities will be held across our campuses to celebrate the University's role as the birthplace of higher education in Wales.

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Hours

Monday - Friday: 07:00 AM - 13:00 PM
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References:

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<https://www.mysql.com/downloads/>

<https://dev.mysql.com/doc/refman/8.0/en/installing.html>

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<https://docs.djangoproject.com/en/4.0/>

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