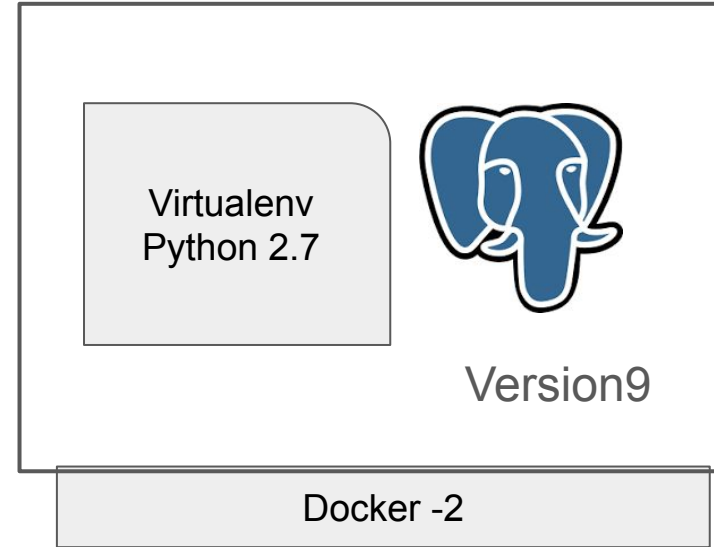
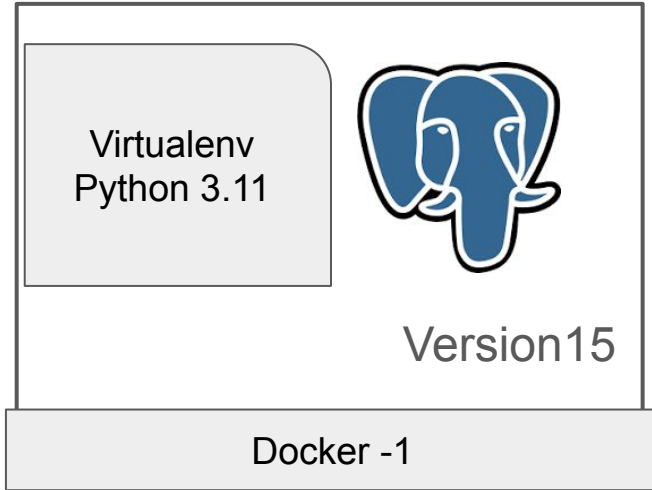


## DBMS : Database Management System

- MySql
- **PostgreSql (recommended)**
- Oracle



- Run locally
- **Using Docker**



Know more about docker: <https://youtu.be/pTFZFxd4hOI?si=bTafLdMB5Ye0BdtT>

## docker-compose.yml

```
services:
  db:
    image: postgres:15
    container_name: mypostgres_db
    environment:
      POSTGRES_USER: myuser
      POSTGRES_PASSWORD: mypass
      POSTGRES_DB: lms
    ports:
      - "5432:5432"
    volumes:
      - postgresql_data:/var/lib/postgresql/data

volumes:
  postgresql_data:
```

docker compose up --build

docker compose up

```
CREATE TABLE lms_admin(  
    id SERIAL PRIMARY KEY,  
    email VARCHAR(150) NOT NULL UNIQUE,  
    is_active BOOLEAN NOT NULL  
);
```

```
CREATE TABLE student (  
    id SERIAL PRIMARY KEY,  
    email VARCHAR(150) UNIQUE,  
    name VARCHAR(300) NOT NULL,  
    enrolled DATE NOT NULL  
);
```

```
CREATE TABLE course (  
    id SERIAL PRIMARY KEY,  
    name VARCHAR(255) UNIQUE NOT NULL,  
    description TEXT,  
    code VARCHAR(10) UNIQUE,  
    duration INT,  
    starts_at DATE  
);
```

```
CREATE TABLE instructor (  
    id SERIAL PRIMARY KEY,  
    email VARCHAR(150) UNIQUE,  
    name VARCHAR(150) NOT NULL  
);
```

```
CREATE TABLE course_instructor (  
    id SERIAL PRIMARY KEY,  
    course_id INT NOT NULL,  
    instructor_id INT NOT NULL,  
  
    FOREIGN KEY (course_id) REFERENCES course(id),  
    FOREIGN KEY (instructor_id) REFERENCES instructor(id)  
);
```

```
CREATE TABLE enrollment (  
    id SERIAL PRIMARY KEY,  
    student_id INT NOT NULL,  
    course_id INT NOT NULL,  
    enrollment_date DATE NOT NULL,  
  
    FOREIGN KEY (student_id) REFERENCES student(id),  
    FOREIGN KEY (course_id) REFERENCES course(id)  
);
```