# Project MS2: e-Hotels CSI 2132 - Databases I Winter 2023 University of Ottawa

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# Group #12

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a. The DBMS and the programming languages that you have used in you	ur
implementation of the application.	

	The	<b>DBMS</b>	we	used:	Pg	Adı	min	4
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The programming language we used: PHP

Other: HTML, MySQL

### b. Specific steps to guide someone to install your applications:

Install PgAdmin:

https://www.pgadmin.org/download/

Download Apache From the following Path

- https://www.apachelounge.com/download/
- For windows:

https://httpd.apache.org/docs/current/platform/windows.html#down

- For Mac: type in terminal
- \$ xcode-select –install
- \$ brew install apache-httpd
- Download PHP from the following path
- For windows:

https://windows.php.net/download#php-7.4

– For Mac:

https://www.php.net/manual/en/install.macosx.php

<u>FULL TUTORIAL:</u> https://www.youtube.com/watch?v=461kxsPM\_nU&t=61s

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### **Initialization**:

After following the tutorial and downloading all of our code files follow these steps:

- Place all of our files into the htdocs found in:
- C: > Install > Apache24 > htdocs

- After Initializing Pgadmin 4 with the appropriate names and schema creation you are able to use our site on the browser.

**SIDENOTE**: In case the information is needed;

```
- host = localhost
```

- port = 5432
- dbname = postgres
- password = Smartinez.1

## c. A list with the DDLs that create your database

```
Create SCHEMA php ehotels AUTHORIZATION postgres;
set search_path="php_ehotels";
CREATE TABLE hotel_chain
  chain id VARCHAR(10) PRIMARY KEY,
  name VARCHAR(15) NOT NULL,
  street VARCHAR(30) NOT NULL,
  city VARCHAR(15) NOT NULL,
  email VARCHAR(30) NOT NULL,
  phone VARCHAR(15) NOT NULL
);
CREATE TABLE hotel
  hotel_id VARCHAR(10) PRIMARY KEY,
  name VARCHAR(30) NOT NULL,
  category VARCHAR(30) NOT NULL,
  numRooms VARCHAR(30) NOT NULL,
  street VARCHAR(30) NOT NULL,
  city VARCHAR(30) NOT NULL,
  email VARCHAR(30) NOT NULL,
  phone VARCHAR(15) NOT NULL,
  chain id VARCHAR(15) NOT NULL,
  FOREIGN KEY (chain_id) REFERENCES hotel_chain(chain_id)
);
```

```
CREATE TABLE room(
  room_id VARCHAR(10) PRIMARY KEY,
  room num VARCHAR(10) NOT NULL,
  price DECIMAL(7,2) NOT NULL,
  amenities VARCHAR(100) NOT NULL,
  room capacity VARCHAR(30) NOT NULL,
  view_type VARCHAR(30) NOT NULL,
  extension VARCHAR(30) NOT NULL,
  problems VARCHAR(30) NOT NULL,
  availability VARCHAR(30) NOT NULL,
  hotel_id VARCHAR(15) NOT NULL,
  FOREIGN KEY (hotel id) REFERENCES hotel(hotel id)
);
CREATE TABLE employee(
  employee id VARCHAR(15) NOT NULL PRIMARY KEY,
  name VARCHAR(30) NOT NULL,
  street VARCHAR(30) NOT NULL,
  city VARCHAR(30) NOT NULL,
  SSSorSIN id INT(9) NOT NULL,
  hotel id VARCHAR(15) NOT NULL,
  FOREIGN KEY (hotel_id) REFERENCES hotel(hotel_id);
);
CREATE TABLE manager(
  manager_id VARCHAR(15) NOT NULL PRIMARY KEY,
  name VARCHAR(30) NOT NULL,
  street VARCHAR(30) NOT NULL,
  city VARCHAR(30) NOT NULL,
  SSNorSIN id INT(9) NOT NULL,
  position_id VARCHAR(30) NOT NULL,
  employee_id VARCHAR(30) NOT NULL,
  FOREIGN KEY (employee_id) REFERENCES manager(manager_id)
);
CREATE TABLE customer(
  customer id VARCHAR(30) NOT NULL PRIMARY KEY,
  name VARCHAR(30) NOT NULL,
  street VARCHAR(30) NOT NULL,
  city VARCHAR(30) NOT NULL,
  SSNorSIN_id INT(9) NOT NULL,
  registration date VARCHAR(30) NOT NULL
);
```

```
CREATE TABLE renting (
  renting_id VARCHAR(15) NOT NULL PRIMARY KEY,
  checkin_date VARCHAR(30) NOT NULL,
  checkout_date VARCHAR(30) NOT NULL,
  payment info VARCHAR(30) NOT NULL,
  room_id VARCHAR(30) NOT NULL,
  customer_id VARCHAR(30) NOT NULL,
  employee id VARCHAR(30) NOT NULL,
  FOREIGN KEY (customer_id) REFERENCES customer(customer_id)
);
CREATE TABLE booking(
  booking_id VARCHAR(30) NOT NULL PRIMARY KEY,
  checkin_date VARCHAR(30) NOT NULL,
  checkout date VARCHAR(30) NOT NULL,
  room_id VARCHAR(30) NOT NULL,
  customer_id VARCHAR(30) NOT NULL,
  FOREIGN KEY (room id) REFERENCES room(room id),
  FOREIGN KEY (customer_id) REFERENCES customer(customer_id)
);
```