**МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ**
**НАЦІОНАЛЬНОМУ УНІВЕРСИТЕТІ "ЛЬВІВСЬКА ПОЛІТЕХНІКА"**

**Кафедра Системи штучного інтелекту**

**Лабораторна робота №2**
з дисципліни
«Організація баз даних та знань»

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**Львів – 2019 р.**

```sql
DROP DATABASE EmploymentCenter;
CREATE DATABASE IF NOT EXISTS EmploymentCenter;

CREATE TABLE EmploymentCenter.employer(
employer_id INTEGER UNSIGNED NOT NULL AUTO_INCREMENT,
employer_name TEXT NOT NULL,
mobile_number CHAR(99) NOT NULL,
email CHAR(99) NOT NULL,
PRIMARY KEY (employer_id)
);


CREATE TABLE EmploymentCenter.vacancies(
vacancies_id INTEGER UNSIGNED NOT NULL AUTO_INCREMENT,
employer_id INTEGER UNSIGNED NOT NULL,
name_of_vacancy TEXT NOT NULL,
properties CHAR(99),
PRIMARY KEY (vacancies_id),
CONSTRAINT employer_role FOREIGN KEY (employer_id) REFERENCES
employer (employer_id) ON DELETE NO ACTION ON UPDATE NO ACTION
);

CREATE TABLE EmploymentCenter.employee(
employee_id INTEGER UNSIGNED NOT NULL AUTO_INCREMENT,
person_name CHAR(99) NOT NULL,
mobile_number CHAR(10) NOT NULL,
secretary_id INTEGER UNSIGNED NOT NULL,
email CHAR(100) NOT NULL,
time_for_work TIME NOT NULL,
PRIMARY KEY (employee_id)
);


CREATE TABLE EmploymentCenter.document (
cv_id INTEGER  UNSIGNED NOT NULL AUTO_INCREMENT,
employee_id INTEGER UNSIGNED NOT NULL,
PRIMARY KEY(cv_id),
CONSTRAINT employee_role FOREIGN KEY (employee_id) REFERENCES
employee(employee_id) ON DELETE NO ACTION ON UPDATE NO ACTION
);

CREATE TABLE EmploymentCenter.information(
information_id INTEGER UNSIGNED NOT NULL AUTO_INCREMENT,
name_of_institution CHAR(100) NOT NULL,
time_of_starting_work TIME NOT NULL,
time_of_finishing_work TIME NOT NULL,
cv_id INTEGER UNSIGNED NOT NULL,
```
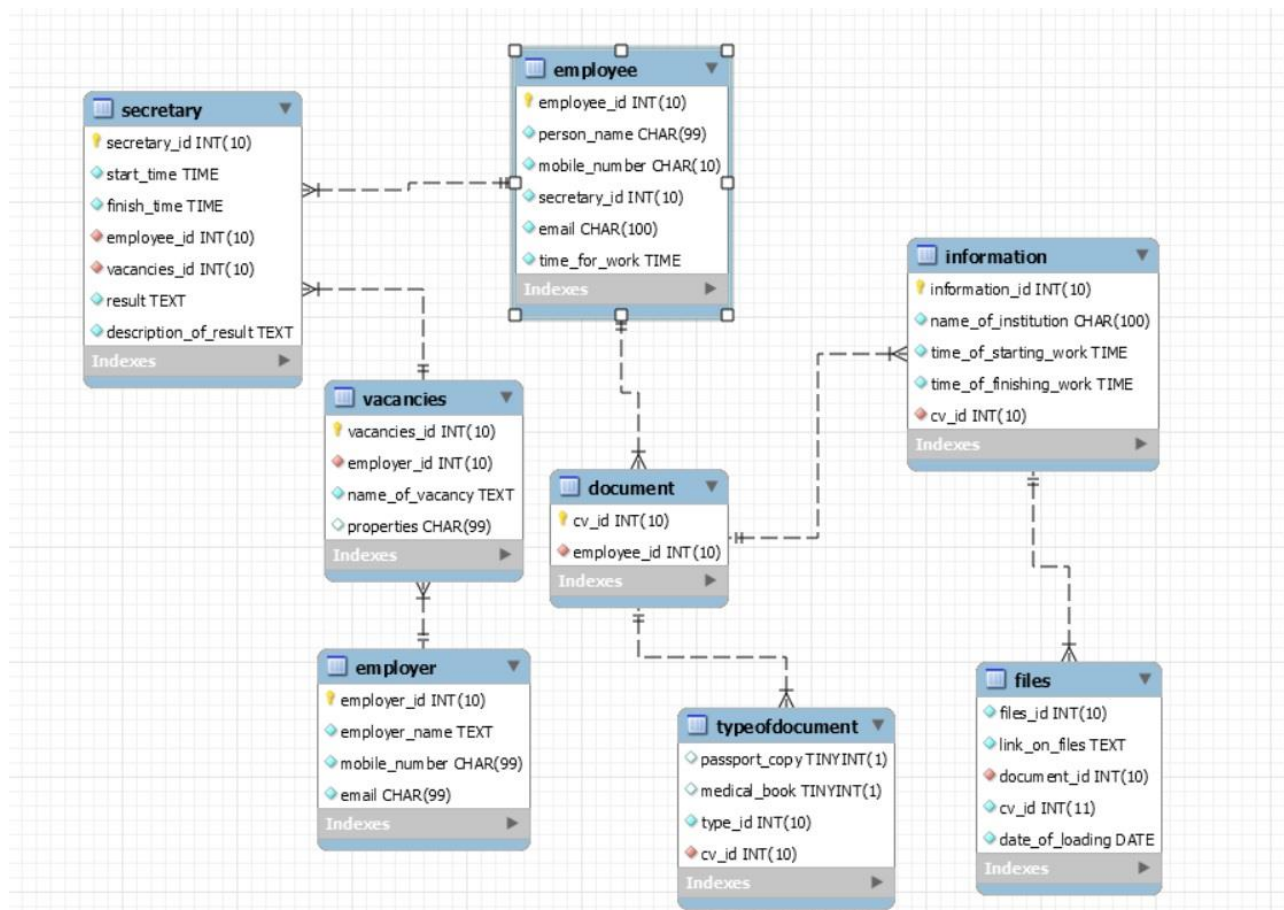
```sql
PRIMARY KEY (information_id),
CONSTRAINT cv_information FOREIGN KEY (cv_id) REFERENCES
document(cv_id) ON DELETE NO ACTION ON UPDATE NO ACTION
);

CREATE TABLE EmploymentCenter.files (
files_id INTEGER UNSIGNED NOT NULL,
link_on_files TEXT NOT NULL,
document_id INTEGER UNSIGNED NOT NULL,
cv_id INTEGER NOT NULL,
date_of_loading DATE NOT NULL,
CONSTRAINT cv_files FOREIGN KEY (document_id) REFERENCES
information(information_id) ON DELETE NO ACTION ON UPDATE NO
ACTION
);

CREATE TABLE EmploymentCenter.secretary(
secretary_id INTEGER UNSIGNED NOT NULL AUTO_INCREMENT,
start_time TIME NOT NULL,
finish_time TIME NOT NULL,
employee_id INTEGER UNSIGNED NOT NULL,
vacancies_id INTEGER UNSIGNED NOT NULL,
result TEXT NOT NULL,
description_of_result TEXT NOT NULL,
PRIMARY KEY (secretary_id),
CONSTRAINT employee_information FOREIGN KEY (employee_id)
REFERENCES employee (employee_id) ON DELETE NO ACTION ON UPDATE
NO ACTION,
CONSTRAINT vacancies_information FOREIGN KEY(vacancies_id)
REFERENCES vacancies (vacancies_id) ON DELETE NO ACTION ON UPDATE
NO ACTION
);

CREATE TABLE EmploymentCenter.TypeOfDocument(
passport_copy BOOLEAN DEFAULT 0,
medical_book BOOLEAN DEFAULT 0,
type_id INTEGER UNSIGNED NOT NULL,
cv_id INTEGER UNSIGNED NOT NULL,
CONSTRAINT cv_documents FOREIGN KEY (cv_id) REFERENCES
document(cv_id) ON DELETE NO ACTION ON UPDATE NO ACTION
);
```

**Висновок:** на цій лабораторній роботі було завершено моделювання і засобами SQL створено базу даних, що складається з семи таблиць.