

IDSw DML

INSERT into tables:

Diseases table:

```
INSERT INTO diseases(nameDisease, infectious_rate, mortality_rate, incubation_period,  
development_period, convalescence_period, cause, comment_section) VALUES (?, ?, ?, ?, ?,  
?, ?, ?);
```

Symptoms Table:

```
INSERT INTO symptoms( nameSymptom, pain_management) VALUES (?, ?);
```

Disease has Symptoms table:

```
INSERT INTO disease_has_symptoms( disease_id, symptom_id) VALUES (?, ?);
```

Patients table:

```
INSERT INTO patients( namePatient, surname, username, dob) VALUES (?, ?, ?, ?);
```

Medical Records:

```
INSERT INTO medical_records (patient) VALUES (?);
```

Diagnoses table:

```
INSERT INTO diagnoses (nameDiagnosis, date, comment_section, disease_id,  
medicalrecord_id) VALUES (?, ?, ?, ?, ?);
```

Treatments table:

```
INSERT INTO treatments (nameTreatment, comment_section, diagnosis_id) VALUES (?, ?, ?);
```

Disease has Treatments table:

```
INSERT INTO disease_has_treatments(disease_id ,treatment_id)VALUES(?, ?);
```

Diagnosis has Treatments

```
INSERT INTO diagnosis_has_treatments (diagnosis_id, treatment_id) VALUES (?, ?);
```

Virtual Populations:

```
INSERT INTO virtual_population(initial_population, p_infected, p_healthy, p_immune,
Immunity_period ,disease_id) VALUES(?, ?, ?, ?, ?, ?);
```

Simulations:

```
INSERT INTO simulations(totalInfections, totalDeaths, totalImmunity, totalPopulation,
virtual_population) VALUES ('?', '?', '?', '?', '?')
```

UPDATE:

```
UPDATE diseases SET nameDisease = ?, infectious_rate = ?, mortality_rate = ?,
incubation_period = ?, development_period = ?, convalescence_period = ?, cause = ?,
comment_section = ? WHERE IDdisease = ?;
```

```
UPDATE symptoms SET nameSymptom = ?, pain_management = ? WHERE IDsymptom = ?;
```

```
UPDATE treatments SET nameTreatment = ?, comment_section = ? WHERE IDtreatment = ?;
```

```
UPDATE diagnoses SET nameDiagnosis = ?, date = ?, comment_section = ? WHERE
IDdiagnosis = ?;
```

```
UPDATE patients SET namePatient = ?, surname = ?, doB = ? WHERE IDpatient = ?;
```

DELETE:

```
DELETE FROM diagnoses WHERE IDdiagnosis = ?;
```

```
DELETE FROM diseases WHERE IDdisease = ?;
```

```
DELETE FROM symptoms WHERE IDsymptom = ?
```

READ:

```
SELECT * FROM diagnoses WHERE IDdiagnosis = ?;
```

```
SELECT * FROM diseases WHERE IDdisease = ?;
```

```
SELECT * FROM medical_records WHERE IDmedical_record = ?;
```

```
SELECT * FROM patients WHERE IDpatient = ?;
```

```
SELECT * FROM simulations WHERE IDsimulation=?;
```

```
SELECT * FROM symptoms WHERE IDsymptom = ?;
```

```
SELECT * FROM treatments WHERE IDtreatment = ?;
```

```
SELECT * FROM virtual_populations WHERE idVirtual_population= ?;
```

SELECT: → QUERIES

Diagnoses:

list last 6: SELECT * FROM diagnoses ORDER BY IDdiagnosis DESC LIMIT 6;

list all diagnosis: SELECT * FROM diagnoses ORDER BY IDdiagnosis ;

list diagnoses by patient: SELECT * FROM diagnoses WHERE medicalRecord_id = ? ;

Diseases:

list las 6: SELECT * FROM diseases ORDER BY IDdisease DESC LIMIT 6;

list Matching disease by name: SELECT * FROM diseases WHERE nameDisease LIKE '%?%';

list Diseases by Symptoms: SELECT IDdisease, nameDisease, comment_section FROM diseases JOIN disease_has_symptoms ON IDdisease = disease_id JOIN symptoms ON IDsymptom = symptom_id WHERE ?

Medical Record:

list all: SELECT * FROM medical_records

Patients:

list matching patient by name: SELECT * FROM patients WHERE namePatient LIKE ?;

Simulations:

List matching simulation by Virtual population: SELECT * FROM simulations WHERE virtual_population= ?;

Symptoms:

list matching symptom by name: SELECT * FROM symptoms WHERE nameSymptom LIKE ?

list symptom by disease: SELECT IDsymptom, nameSymptom, pain_management FROM symptoms JOIN disease_has_symptoms ON IDsymptom = symptom_id JOIN diseases ON IDdisease = disease_id WHERE

list symptoms by disease: SELECT symptoms.* FROM symptoms JOIN disease_has_symptoms ON IDsymptoms = symptom_id WHERE disease_id = ?;

Treatments:

list 6 most recent: SELECT * FROM treatments ORDER BY IDtreatment DESC LIMIT 6;

list matching treatment by name: SELECT * FROM treatments WHERE nameTreatment LIKE ?;

list treatments by disease : SELECT IDtreatment, nameTreatment, t.comment_section FROM treatments AS t JOIN disease_has_treatments ON IDtreatment = treatment_id JOIN diseases ON IDdisease = disease_id WHERE ?;

list treatment by diagnosis: SELECT nameTreatment, t.comment_section FROM treatments AS t JOIN diagnosis_has_treatments ON IDtreatment = treatment_id JOIN diagnoses ON IDdiagnosis = diagnosis_id WHERE ?

Virtual Populations:

list virtual population by disease: SELECT * FROM virtual_populations WHERE disease_id=?;