

## Příloha 2. Kódování databázových tabulek

### Tabulka Location

```
create table location
(
    id int(6) not null,
    city varchar(20) not null,
    street varchar(30) not null,
    number int(4) not null,
    zip_code int(6) not null,
    coordinates json not null
);

create unique index location_id_uindex
on location (id);

alter table location
add constraint location_pk
primary key (id);

alter table location modify id int(6) auto_increment;
```

### Tabulka Hospital

```
create table hospital
(
    id int(6),
    title varchar(50) not null,
    emergency boolean null,
    doctors json not null,
    location_id int not null,
    schedule_id int not null
);

create unique index hospital_id_uindex
on hospital (id);

alter table hospital
add constraint hospital_pk
primary key (id);

alter table hospital modify id int(6) auto_increment;
```

## Tabulka Daily Schedule

```
create table daily_schedule
(
    id int(10),
    time_opening time not null,
    time_closing time not null
);

create unique index daily_schedule_id_uindex
on daily_schedule (id);

alter table daily_schedule
add constraint daily_schedule_pk
primary key (id);

alter table daily_schedule modify id int(10) auto_increment;
```

## Tabulka Schedule

```
create table schedule
(
    id int(10),
    monday int null,
    tuesday int null,
    wednesday int null,
    thursday int null,
    friday int null,
    saturday int null,
    sunday int null
);

create unique index schedule_id_uindex
on schedule (id);

alter table schedule
add constraint schedule_pk
primary key (id);

alter table schedule modify id int(10) auto_increment;
```

## Tabulka Company

```
create table company
(
  id int(6),
  title varchar(50) not null,
  polices json not null,
  mail varchar(40) not null,
  location_id int not null,
  schedule_id int not null
);

create unique index company_id_uindex
  on company (id);

alter table company
  add constraint company_pk
    primary key (id);

alter table company modify id int(6) auto_increment;
```

## Tabulka User

```
create table user
(
  id int(6),
  name varchar(20) not null,
  surname varchar(30) not null,
  date_of_birth date not null,
  mail varchar(40) not null,
  gender varchar(16) not null,
  id_number varchar(11) not null,
  location_id int not null
);

create unique index user_id_uindex
  on user (id);

alter table user
  add constraint user_pk
    primary key (id);

alter table user modify id int(6) auto_increment;
```

## Tabulka Insurance

```
create table insurance
(
  id int(10),
  date_start date not null,
  date_end date not null,
  company_id int not null,
  user_id int not null
);

create unique index insurance_id_uindex
  on insurance (id);

alter table insurance
  add constraint insurance_pk
    primary key (id);

alter table insurance modify id int(10) auto_increment;
```

## Tabulka Reservation

```
create table reservation
(
  id int(10),
  date date not null,
  time time not null,
  doctor varchar(30) not null,
  hospital_id int not null,
  user_id int not null
);

create unique index reservation_id_uindex
  on reservation (id);

alter table reservation
  add constraint reservation_pk
    primary key (id);

alter table reservation modify id int(10) auto_increment;
```

## Tabulka HospitalCompany

```
create table hospital_company
(
  hospital_id int not null,
  company_id int not null
);
```

Po vytvoření tabulek mezi ně přidáme relační vazby, jak je naznačeno ve fyzickém modelu.

### Vazba M2O mezi tabulkami Schedule a Daily Schedule

```
alter table schedule
  add constraint schedule_daily_schedule_id_fk_monday
    foreign key (monday) references daily_schedule (id);

alter table schedule
  add constraint schedule_daily_schedule_id_fk_tuesday
    foreign key (tuesday) references daily_schedule (id);

alter table schedule
  add constraint schedule_daily_schedule_id_fk_wednesday
    foreign key (wednesday) references daily_schedule (id);

alter table schedule
  add constraint schedule_daily_schedule_id_fk_thursday
    foreign key (thursday) references daily_schedule (id);

alter table schedule
  add constraint schedule_daily_schedule_id_fk_friday
    foreign key (friday) references daily_schedule (id);

alter table schedule
  add constraint schedule_daily_schedule_id_fk_saturday
    foreign key (saturday) references daily_schedule (id);

alter table schedule
  add constraint schedule_daily_schedule_id_fk_sunday
    foreign key (sunday) references daily_schedule (id);
```

### Vazby v tabulce Hospital

```
alter table hospital
  add constraint hospital_location_id_fk
    foreign key (location_id) references location (id);

alter table hospital
  add constraint hospital_schedule_id_fk
    foreign key (schedule_id) references schedule (id);
```

### Vazby v tabulce Company

```
alter table company
  add constraint company_location_id_fk
    foreign key (location_id) references location (id);
```

```
alter table company
  add constraint company_schedule_id_fk
    foreign key (schedule_id) references schedule (id);
```

### Vazby v tabulce User

```
alter table user
  add constraint user_location_id_fk
    foreign key (location_id) references location (id);
```

### Vazby v tabulce Insurance

```
alter table insurance
  add constraint insurance_company_id_fk
    foreign key (company_id) references company (id);
```

```
alter table insurance
  add constraint insurance_user_id_fk
    foreign key (user_id) references user (id);
```

### Vazby v tabulce Reservation

```
alter table reservation
  add constraint reservation_hospital_id_fk
    foreign key (hospital_id) references hospital (id);
```

```
alter table reservation
  add constraint reservation_user_id_fk
    foreign key (user_id) references user (id);
```

### Vazby v tabulce HospitalCompany

```
alter table hospital_company
  add constraint hospital_company_hospital_id_fk
    foreign key (hospital_id) references hospital (id);
```

```
alter table reservation
  add constraint hospital_company_comapny_id_fk
    foreign key (company_id) references company (id);
```