

Příloha č.1: Fyzický návrh databáze – zdrojový kód

```
Create table [firma]
(
    [id_firma] Integer NOT NULL,
    [id_forma] Integer NOT NULL,
    [nazev] Varchar(20) NOT NULL,
    [ico] Numeric(10,0) NULL,
    [dic] Varchar(10) NULL,
Primary Key ([id_firma])
)
go
```

```
Create table [ciselnik_forma]
(
    [id_forma] Integer NOT NULL,
    [forma] Varchar(6) NOT NULL,
Primary Key ([id_forma])
)
go
```

```
Create table [adresa_fir]
(
    [id_adresa] Integer NOT NULL,
    [ulice] Varchar(30) NULL,
    [cislo] Varchar(10) NULL,
    [mesto] Varchar(30) NULL,
    [psc] Numeric(5,0) NULL,
    [popis] Varchar(30) NULL,
Primary Key ([id_adresa])
)
go
```

```
Create table [adresa_firma]
(
    [id_firma] Integer NOT NULL,
    [id_adresa] Integer NOT NULL,
Primary Key ([id_firma],[id_adresa])
)
```

go

Create table [oddeleni]

```
(
    [id_odd] Integer NOT NULL,
    [nazev] Varchar(25) NULL,
    [popis] Varchar(50) NULL,
    [id_firma] Integer NOT NULL,
```

Primary Key ([id_odd])

)

go

Create table [misto]

```
(
    [id_misto] Integer NOT NULL,
    [nazev] Varchar(25) NULL,
    [popis] Varchar(50) NULL,
    [id_odd] Integer NOT NULL,
    [id_zam] Integer NOT NULL,
```

Primary Key ([id_misto])

)

go

Create table [zamestnanec]

```
(
    [id_zam] Integer NOT NULL,
    [id_nad_zam] Integer NULL,
    [id_obcan] Integer NOT NULL,
    [aktivni] Bit NOT NULL,
    [jmeno] Varchar(20) NULL,
    [prijmeni] Varchar(30) NULL,
    [prijmeni_svobodna] Varchar(30) NULL,
    [gender] Bit NULL,
    [rc] Numeric(10,0) NULL,
    [dat_nar] Numeric(10,0) NULL,
    [tel] Numeric(12,0) NULL,
    [mail] Varchar(30) NULL,
    [titul_pred] Varchar(15) NULL,
    [titul_za] Varchar(15) NULL,
```

```

        [op] Numeric(9,0) NULL,
        [pas] Numeric(15,0) NULL,
        [ban_pred] Numeric(4,0) NULL,
        [ban_cislo] Numeric(15,0) NULL,
        [ban_za] Numeric(4,0) NULL,
        [datum_nastup] smalldatetime NOT NULL,
        [datum_vystup] smalldatetime NULL,
        [id_zdrav_poj] Integer NOT NULL,
        [id_typ_uvazek] Integer NOT NULL,
        [id_stav] Integer NOT NULL,
        [plat] Numeric(6,0) NOT NULL,
Primary Key ([id_zam])
)
go

```

```

Create table [ciselnik_obcan]
(
        [id_obcan] Integer NOT NULL,
        [obcanstvi] Varchar(20) NOT NULL,
        [id_typ] Integer NOT NULL,
Primary Key ([id_obcan])
)
go

```

```

Create table [typ_obcan]
(
        [id_typ] Integer NOT NULL,
        [popis] Char(100) NULL,
Primary Key ([id_typ])
)
go

```

```

Create table [ciselnik_zdrav_poj]
(
        [id_zdrav_poj] Integer NOT NULL,
        [kod_zp] Numeric(4,0) NULL,
        [nazev] Varchar(40) NOT NULL,
        [zkratka] Varchar(10) NULL,
Primary Key ([id_zdrav_poj])
)
go

```

```
)  
go
```

```
Create table [inovace_napady]  
(  
    [id_napad] Integer NOT NULL,  
    [nazev] Varchar(20) NOT NULL,  
    [popis] Varchar(250) NULL,  
    [id_zam] Integer NOT NULL,  
Primary Key ([id_napad],[id_zam])  
)  
go
```

```
Create table [ciselnik_typ_uvazku]  
(  
    [id_typ_uvazek] Integer NOT NULL,  
    [nazev] Varchar(20) NULL,  
    [popis] Varchar(200) NULL,  
Primary Key ([id_typ_uvazek])  
)  
go
```

```
Create table [ciselnik_stav]  
(  
    [nazev] Varchar(15) NOT NULL,  
    [id_stav] Integer NOT NULL,  
Primary Key ([id_stav])  
)  
go
```

```
Create table [adresa_zam]  
(  
    [id_adresa] Integer NOT NULL,  
    [ulice] Varchar(30) NULL,  
    [cislo] Varchar(10) NULL,  
    [mesto] Varchar(30) NULL,  
    [psc] Numeric(5,0) NULL,  
    [popis] Varchar(30) NULL,  
Primary Key ([id_adresa])
```

```
)  
go
```

```
Create table [adresa_zamestnanec]  
(  
    [id_adresa] Integer NOT NULL,  
    [id_zam] Integer NOT NULL,  
Primary Key ([id_adresa],[id_zam])  
)  
go
```

```
Create table [cile]  
(  
    [id_cil] Integer NOT NULL,  
    [hodnotil] Integer NOT NULL,  
    [nazev] Varchar(25) NULL,  
    [popis] Varchar(10) NULL,  
    [datum_zad] smalldatetime NULL,  
    [datum_spln] smalldatetime NULL,  
    [splneno] Bit NOT NULL,  
    [dulezitost] Bit NOT NULL,  
Primary Key ([id_cil])  
)  
go
```

```
Create table [cile_zam]  
(  
    [id_cil] Integer NOT NULL,  
    [id_zam] Integer NOT NULL,  
Primary Key ([id_cil],[id_zam])  
)  
go
```

```
Create table [zamestnanec_lekar]  
(  
    [id_prohl] Integer NOT NULL,  
    [vysetril] Varchar(20) NULL,  
    [datum] smalldatetime NULL,  
    [zpusobilost] Bit NOT NULL,
```

```
        [id_nalez] Integer NOT NULL,  
        [id_zam] Integer NOT NULL,  
Primary Key ([id_prohl])  
)  
go
```

```
Create table [ciselnik_nalez]  
(  
        [id_nalez] Integer NOT NULL,  
        [nazev] Varchar(30) NOT NULL,  
        [popis] Varchar(250) NULL,  
Primary Key ([id_nalez])  
)  
go
```

```
Create table [dokumenty]  
(  
        [id_zam] Integer NOT NULL,  
        [id_dok] Integer NOT NULL,  
        [nazev] Varchar(25) NULL,  
        [popis] Varchar(250) NULL,  
        [datum] smalldatetime NOT NULL,  
        [expirace] smalldatetime NULL,  
        [scan] Varbinary(8000) NULL,  
Primary Key ([id_zam],[id_dok])  
)  
go
```

```
Create table [dovednosti]  
(  
        [id_dov] Integer NOT NULL,  
        [nazev] Varchar(20) NOT NULL,  
        [popis] Varchar(50) NULL,  
Primary Key ([id_dov])  
)  
go
```

```
Create table [vyberove_rizeni]  
(
```

```
        [id_vyberove_rizeni] Integer NOT NULL,  
        [kolo] Integer NOT NULL,  
        [vysledek] Varchar(50) NULL,  
        [poznamka] Varchar(50) NULL,  
        [id_zam] Integer NOT NULL,  
Primary Key ([id_vyberove_rizeni],[kolo])  
)  
go
```

```
Create table [stupen_dovednosti]  
(  
        [id_stupen] Integer NOT NULL,  
        [popis] Varchar(20) NULL,  
Primary Key ([id_stupen])  
)  
go
```

```
Create table [misto_dovednosti]  
(  
        [id_misto] Integer NOT NULL,  
        [id_dov] Integer NOT NULL,  
        [poznamka] Varchar(50) NULL,  
        [id_stupen] Integer NOT NULL,  
Primary Key ([id_misto],[id_dov])  
)  
go
```

```
Create table [uchazec]  
(  
        [id_uchaz] Integer NOT NULL,  
        [jmeno] Varchar(20) NOT NULL,  
        [prijmeni] Varchar(30) NOT NULL,  
        [gender] Bit NULL,  
        [rc] Numeric(10,0) NULL,  
        [dat_nar] Numeric(10,0) NULL,  
        [tel] Numeric(12,0) NULL,  
        [mail] Varchar(30) NULL,  
        [titul_pred] Varchar(15) NULL,  
        [titul_za] Varchar(15) NULL,
```

```

        [cislo] Varchar(10) NULL,
        [mesto] Varchar(30) NULL,
        [poznamka] Varchar(50) NULL,
        [psc] Numeric(5,0) NULL,
        [ulice] Varchar(30) NULL,
        [id_obcan] Integer NOT NULL,
Primary Key ([id_uchaz])
)
go

Create table [misto_vyber]
(
        [id_misto] Integer NOT NULL,
        [id_vyberove_rizeni] Integer NOT NULL,
        [kolo] Integer NOT NULL,
Primary Key ([id_misto],[id_vyberove_rizeni],[kolo])
)
go

Create table [uchazec_vyber]
(
        [id_uchaz] Integer NOT NULL,
        [id_vyberove_rizeni] Integer NOT NULL,
        [kolo] Integer NOT NULL,
Primary Key ([id_uchaz],[id_vyberove_rizeni],[kolo])
)
go

Create table [uchazec_dovednosti]
(
        [id_dov] Integer NOT NULL,
        [id_stupen] Integer NOT NULL,
        [id_uchaz] Integer NOT NULL,
        [poznamka] Varchar(10) NULL,
Primary Key ([id_dov],[id_uchaz])
)
go

Create table [zamestnanec_dovednosti]

```



```
(
    [id_zam] Integer NOT NULL,
    [id_stupen] Integer NOT NULL,
    [id_dov] Integer NOT NULL,
    [od] smalldatetime NULL,
    [do] smalldatetime NULL,
    [pripomenout] Bit NULL,
    [dnu] Numeric(3,0) NULL,
    [poznamka] Varchar(50) NULL,
Primary Key ([id_zam],[id_dov])
)
go
```

```
Create table [mzdy_zam]
(
    [rok] Numeric(4,0) NOT NULL,
    [mesic] Numeric(2,0) NOT NULL,
    [id_zam] Integer NOT NULL,
Primary Key ([rok],[mesic],[id_zam])
)
go
```

```
Create table [dochazka]
(
    [rok] Numeric(4,0) NOT NULL,
    [mesic] Numeric(2,0) NOT NULL,
    [id_zam] Integer NOT NULL,
    [id_dochazka] Integer NOT NULL,
    [od] smalldatetime NULL,
    [do] smalldatetime NULL,
    [poc_hodin] Numeric(2,2) NULL,
Primary Key ([id_dochazka])
)
go
```

```
Create table [nepritomnost]
(
    [id_typ_nepritomnost] Integer NOT NULL,
    [rok] Numeric(4,0) NOT NULL,
```

```

        [mesic] Numeric(2,0) NOT NULL,
        [id_zam] Integer NOT NULL,
        [id_nepritomnost] Integer NOT NULL,
        [plan_od] smalldatetime NULL,
        [plan_do] smalldatetime NULL,
        [schvalil] Varchar(30) NULL,
        [uskutecнено] Bit NULL,
        [od] smalldatetime NULL,
        [do] smalldatetime) NULL,
        [poc_hodin] Numeric(2,0) NULL,
Primary Key ([id_nepritomnost])
)
go

```

```

Create table [nepritomnost_ciselnik]
(
        [id_typ_nepritomnost] Integer NOT NULL,
        [nazev] Varbinary(30) NULL,
        [popis] Varchar(250) NULL,
Primary Key ([id_typ_nepritomnost])
)
go

```

```

Create table [mzdy_slozky_mezd]
(
        [id_mzda] Integer NOT NULL,
        [id_slozka_mzdy] Integer NOT NULL,
        [rok] Numeric(4,0) NOT NULL,
        [mesic] Numeric(2,0) NOT NULL,
        [id_zam] Integer NOT NULL,
        [odpr_dny] Numeric(2,0) NULL,
        [odpr_hod] Numeric(3,0) NULL,
        [mnozstvi_prace] Numeric(5,0) NULL,
        [sazba] Numeric(7,2) NULL,
        [celkem_kc] Numeric(7,2) NOT NULL,
        [id_zakazka] Numeric(10,0) NOT NULL,
        [id_odd] Integer NOT NULL,
Primary Key ([id_mzda],[rok],[mesic],[id_zam])
)

```

go

Create table [ciselnik_slozky_mezd]

```
(
    [id_slozka_mzdy] Integer NOT NULL,
    [nazev] Varchar(30) NULL,
    [popis] Varchar(250) NULL,
    [id_vyp] Integer NOT NULL,
Primary Key ([id_slozka_mzdy])
)
```

go

Create table [ciselnik_typ_vypoctu]

```
(
    [id_vyp] Integer NOT NULL,
    [nazev] Varchar(30) NULL,
    [popis] Varchar(200) NULL,
Primary Key ([id_vyp])
)
```

go

Create table [mzdovy_list]

```
(
    [rok] Numeric(4,0) NOT NULL,
    [mesic] Numeric(2,0) NOT NULL,
    [id_zam] Integer NOT NULL,
    [prohlaseni] Bit NOT NULL,
    [student] Bit NOT NULL,
    [pocet_deti_bez] Numeric(2,0) NOT NULL,
    [pocet_deti_s] Numeric(2,0) NOT NULL,
    [hruba] Numeric(6,2) NOT NULL,
    [zaklad_dan] Numeric(6,2) NOT NULL,
    [zaloha_dan] Numeric(6,2) NOT NULL,
    [sleva_popl] Numeric(6,2) NOT NULL,
    [sleva_invalida] Numeric(6,2) NOT NULL,
    [sleva_student] Numeric(6,2) NOT NULL,
    [sleva_celkem] Numeric(6,2) NOT NULL,
    [uplat_sleva] Numeric(6,2) NOT NULL,
    [zvyhod_deti] Numeric(6,2) NOT NULL,
```

```

        [zvyhod_deti_ztp] Numeric(6,2) NOT NULL,
        [zvyhod_celkem] Numeric(6,2) NOT NULL,
        [dan_bonus] Numeric(6,2) NOT NULL,
        [soc_zam] Numeric(6,2) NOT NULL,
        [zdrav_zam] Numeric(6,2) NOT NULL,
        [soc_firma] Numeric(6,2) NOT NULL,
        [zdrav_firma] Numeric(6,2) NOT NULL,
        [cista_mzda] Numeric(6,2) NOT NULL,
        [id_invalidita] Integer NOT NULL,
Primary Key ([rok],[mesic],[id_zam])
)
go

Create table [ciselnik_kod_invalidita]
(
        [id_invalidita] Integer NOT NULL,
        [typ_invalidita] Varchar(20) NOT NULL,
Primary Key ([id_invalidita])
)
go

Create table [zakazka]
(
        [id_zakazka] Numeric(10,0) NOT NULL,
        [nazev] Varchar(30) NULL,
        [popis] Varchar(250) NULL,
Primary Key ([id_zakazka])
)
go

Alter table [adresa_firma] add foreign key([id_firma]) references
        [firma] ([id_firma])
go
Alter table [oddeleni] add foreign key([id_firma]) references [firma]
        ([id_firma])
go
Alter table [firma] add foreign key([id_forma]) references
        [ciselnik_forma] ([id_forma])

```

```
go
Alter table [adresa_firma] add foreign key([id_adresa]) references
        [adresa_fir] ([id_adresa])
go
Alter table [misto] add foreign key([id_odd]) references [oddeleni]
        ([id_odd])
go
Alter table [mzdy_slozky_mezd] add foreign key([id_odd]) references
        [oddeleni] ([id_odd])
go
Alter table [misto_dovednosti] add foreign key([id_misto]) references
        [misto] ([id_misto])
go
Alter table [misto_vyber] add foreign key([id_misto]) references
        [misto] ([id_misto])
go
Alter table [misto] add foreign key([id_zam]) references
        [zamestnanec] ([id_zam])
go
Alter table [inovace_napady] add foreign key([id_zam]) references
        [zamestnanec] ([id_zam])
go
Alter table [adresa_zamestnanec] add foreign key([id_zam]) references
        [zamestnanec] ([id_zam])
go
Alter table [cile_zam] add foreign key([id_zam]) references
        [zamestnanec] ([id_zam])
go
Alter table [zamestnanec_lekar] add foreign key([id_zam]) references
        [zamestnanec] ([id_zam])
go
Alter table [dokumenty] add foreign key([id_zam]) references
        [zamestnanec] ([id_zam])
go
Alter table [vyberove_rizeni] add foreign key([id_zam]) references
        [zamestnanec] ([id_zam])
go
Alter table [cile] add foreign key([hodnotil]) references
        [zamestnanec] ([id_zam])
```

```
go
Alter table [zamestnanec_dovednosti] add foreign key([id_zam])
references [zamestnanec] ([id_zam])
go
Alter table [mzdy_zam] add foreign key([id_zam]) references
[zamestnanec] ([id_zam])
go
Alter table [zamestnanec] add foreign key([id_obcan]) references
[ciselnik_obcan] ([id_obcan])
go
Alter table [uchazec] add foreign key([id_obcan]) references
[ciselnik_obcan] ([id_obcan])
go
Alter table [ciselnik_obcan] add foreign key([id_typ]) references
[typ_obcan] ([id_typ])
go
Alter table [zamestnanec] add foreign key([id_zdrav_poj]) references
[ciselnik_zdrav_poj] ([id_zdrav_poj])
go
Alter table [zamestnanec] add foreign key([id_typ_uvazek]) references
[ciselnik_typ_uvazku] ([id_typ_uvazek])
go
Alter table [zamestnanec] add foreign key([id_stav]) references
[ciselnik_stav] ([id_stav])
go
Alter table [zamestnanec] add foreign key([id_zam]) references
[zamestnanec] ([id_zam])
go
Alter table [adresa_zamestnanec] add foreign key([id_adresa])
references [adresa_zam] ([id_adresa])
go
Alter table [cile_zam] add foreign key([id_cil]) references [cile]
([id_cil])
go
Alter table [zamestnanec_lekar] add foreign key([id_nalez])
references [ciselnik_nalez] ([id_nalez])
go
Alter table [misto_dovednosti] add foreign key([id_dov]) references
[dovednosti] ([id_dov])
```

```

go
Alter table [uchazec_dovednosti] add foreign key([id_dov]) references
        [dovednosti] ([id_dov])

go
Alter table [zamestnanec_dovednosti] add foreign key([id_dov])
        references [dovednosti] ([id_dov])

go
Alter table [misto_vyber] add foreign
        key([id_vyberove_rizeni],[kolo]) references
        [vyberove_rizeni] ([id_vyberove_rizeni],[kolo])

go
Alter table [uchazec_vyber] add foreign
        key([id_vyberove_rizeni],[kolo]) references
        [vyberove_rizeni] ([id_vyberove_rizeni],[kolo])

go
Alter table [misto_dovednosti] add foreign key([id_stupen])
        references [stupen_dovednosti] ([id_stupen])

go
Alter table [uchazec_dovednosti] add foreign key([id_stupen])
        references [stupen_dovednosti] ([id_stupen])

go
Alter table [zamestnanec_dovednosti] add foreign key([id_stupen])
        references [stupen_dovednosti] ([id_stupen])

go
Alter table [uchazec_vyber] add foreign key([id_uchaz]) references
        [uchazec] ([id_uchaz])

go
Alter table [uchazec_dovednosti] add foreign key([id_uchaz])
        references [uchazec] ([id_uchaz])

go
Alter table [dochazka] add foreign key([rok],[mesic],[id_zam])
        references [mzdy_zam] ([rok],[mesic],[id_zam])

go
Alter table [nepritomnost] add foreign key([rok],[mesic],[id_zam])
        references [mzdy_zam] ([rok],[mesic],[id_zam])

go
Alter table [mzdy_slozky_mezd] add foreign
        key([rok],[mesic],[id_zam]) references [mzdy_zam]
        ([rok],[mesic],[id_zam])

```

```

go
Alter table [mzdovy_list] add foreign key([rok],[mesic],[id_zam])
        references [mzdy_zam] ([rok],[mesic],[id_zam])
go
Alter table [nepritomnost] add foreign key([id_typ_nepritomnost])
        references [nepritomnost_ciselnik]
        ([id_typ_nepritomnost])
go
Alter table [mzdy_slozky_mezd] add foreign key([id_slozka_mzdy])
        references [ciselnik_slozky_mezd] ([id_slozka_mzdy])
go
Alter table [ciselnik_slozky_mezd] add foreign key([id_vyp])
        references [ciselnik_typ_vypoctu] ([id_vyp])
go
Alter table [mzdovy_list] add foreign key([id_invalidita]) references
        [ciselnik_kod_invalidita] ([id_invalidita])
go
Alter table [mzdy_slozky_mezd] add foreign key([id_zakazka])
        references [zakazka] ([id_zakazka])
Go

```

```

create view typy_uvazku as
select zamestnanec.jmeno, zamestnanec.prijmeni,
        ciselnik_typ_uvazek.nazev
from zamestnanec, ciselnik_typ_uvazek
where ciselnik_typ_uvazek.id_typ_uvazek=zamestnanec.id_typ_uvazek
order by ciselnik_typ_uvazek.nazev, zamestnanec.prijmeni

```

```

create view pocet_aktivnich_zamestnancu as
select count(*)
from zamestnanec
where zamestnanec.aktivni = 1
create view nesplnene_dulezite_cile as
select zamestnanec.jmeno, zamestnanec.prijmeni, cile.nazev,
        cile.datum_zad

```



```
from zamestnanec, cile_zamestnance, cile
where cile.cil=cile_zamestnance.cil and
       zamestnanec.id_zam=cile_zamestnance.id_zam and
       cile.splmeno="0" and cile.dulezitos="1"
order by zamestnanec.prijmeni,cile.datum_zad, cile.nazev
```