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Temă PSI
Cap 4.4. Proiectarea bazei de date

Baza de date: PSI

Tabelele bazei de date sunt:

- Utilizatori
- IstoricMedical
- Pacienti
- Programari
- Tratamente
- Furnizori
- Materiale
- LucrariDentare
- Facturi

Tabelul Utilizatori

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	UtilizatorID	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	NumeUtilizator	varchar	no	100			yes	no	yes	Romanian_CI_AS
3	ParolaHash	varchar	no	255			yes	no	yes	Romanian_CI_AS
4	Rol	varchar	no	50			yes	no	yes	Romanian_CI_AS
5	DataCrearii	date	no	3	10	0	yes	(n/a)	(n/a)	NULL

```
CREATE TABLE Utilizatori (
    UtilizatorID INT PRIMARY KEY IDENTITY(1,1),
    NumeUtilizator VARCHAR(100),
    ParolaHash VARCHAR(255),
    Rol VARCHAR(50),
    DataCrearii DATE
);
```

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Tabelul IstoricMedical:

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	IstoricID	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	PacientID	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
3	DetaliiIstoric	text	no	16			yes	(n/a)	(n/a)	Romanian_CI_AS
4	DataInregistrarii	date	no	3	10	0	yes	(n/a)	(n/a)	NULL

```sql
CREATE TABLE IstoricMedical (
    IstoricID INT PRIMARY KEY IDENTITY(1,1),
    PacientID INT,
    DetaliiIstoric TEXT,
    DataInregistrarii DATE,
    FOREIGN KEY (PacientID) REFERENCES Pacienti(PacientID)
);
```

Tabelul Pacienti:

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	PacientID	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	Nume	varchar	no	100			yes	no	yes	Romanian_CI_AS
3	Prenume	varchar	no	100			yes	no	yes	Romanian_CI_AS
4	DataNasterii	date	no	3	10	0	yes	(n/a)	(n/a)	NULL
5	Telefon	varchar	no	15			yes	no	yes	Romanian_CI_AS
6	Email	varchar	no	100			yes	no	yes	Romanian_CI_AS
7	Adresa	varchar	no	255			yes	no	yes	Romanian_CI_AS

```sql
CREATE TABLE Pacienti (
    PacientID INT PRIMARY KEY IDENTITY(1,1),
    Nume VARCHAR(100),
    Prenume VARCHAR(100),
    DataNasterii DATE,
    Telefon VARCHAR(15),
    Email VARCHAR(100),
    Adresa VARCHAR(255)
);
```

Tabelul Programari:

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	ProgramareID	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	PacientID	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
3	TratamentID	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
4	DataProgramare	date	no	3	10	0	yes	(n/a)	(n/a)	NULL
5	OraProgramare	time	no	5	16	7	yes	(n/a)	(n/a)	NULL
6	Descriere	varchar	no	255			yes	no	yes	Romanian_CI_AS
7	Status	varchar	no	50			yes	no	yes	Romanian_CI_AS

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```sql
CREATE TABLE Programari (
    ProgramareID INT PRIMARY KEY IDENTITY(1,1),
    PacientID INT,
    TratamentID INT,
    DataProgramare DATE,
    OraProgramare TIME,
    Descriere VARCHAR(255),
    Status VARCHAR(50),
    FOREIGN KEY (PacientID) REFERENCES Pacienti(PacientID),
    FOREIGN KEY (TratamentID) REFERENCES Tratamente(TratamentID)
);
```

Tabelul Tratamente:

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	TratamentID	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	Denumire	varchar	no	100			yes	no	yes	Romanian_CI_AS
3	Descriere	text	no	16			yes	(n/a)	(n/a)	Romanian_CI_AS

```sql
CREATE TABLE Tratamente (
    TratamentID INT PRIMARY KEY IDENTITY(1,1),
    Denumire VARCHAR(100),
    Descriere TEXT
);
```

Tabelul Furnizori:

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	FurnizorID	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	NumeFirma	varchar	no	100			yes	no	yes	Romanian_CI_AS
3	Contact	varchar	no	255			yes	no	yes	Romanian_CI_AS
4	Telefon	varchar	no	15			yes	no	yes	Romanian_CI_AS
5	Email	varchar	no	100			yes	no	yes	Romanian_CI_AS
6	Adresa	varchar	no	255			yes	no	yes	Romanian_CI_AS

```sql
CREATE TABLE Furnizori (
    FurnizorID INT PRIMARY KEY IDENTITY(1,1),
    NumeFirma VARCHAR(100),
    Contact VARCHAR(255),
    Telefon VARCHAR(15),
    Email VARCHAR(100),
    Adresa VARCHAR(255)
);
```

Tabelul Materiale:

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	MaterialID	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	Denumire	varchar	no	100			yes	no	yes	Romanian_CI_AS
3	Descriere	text	no	16			yes	(n/a)	(n/a)	Romanian_CI_AS
4	Cantitate	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
5	PretUnitar	decimal	no	9	10	2	yes	(n/a)	(n/a)	NULL
6	FurnizorID	int	no	4	10	0	yes	(n/a)	(n/a)	NULL

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```sql
CREATE TABLE Materiale (
    MaterialID INT PRIMARY KEY IDENTITY(1,1),
    Denumire VARCHAR(100),
    Descriere TEXT,
    Cantitate INT,
    PretUnitar DECIMAL(10, 2),
    FurnizorID INT,
    FOREIGN KEY (FurnizorID) REFERENCES Furnizori(FurnizorID)
);
```

Tabelul LucrariDentare:

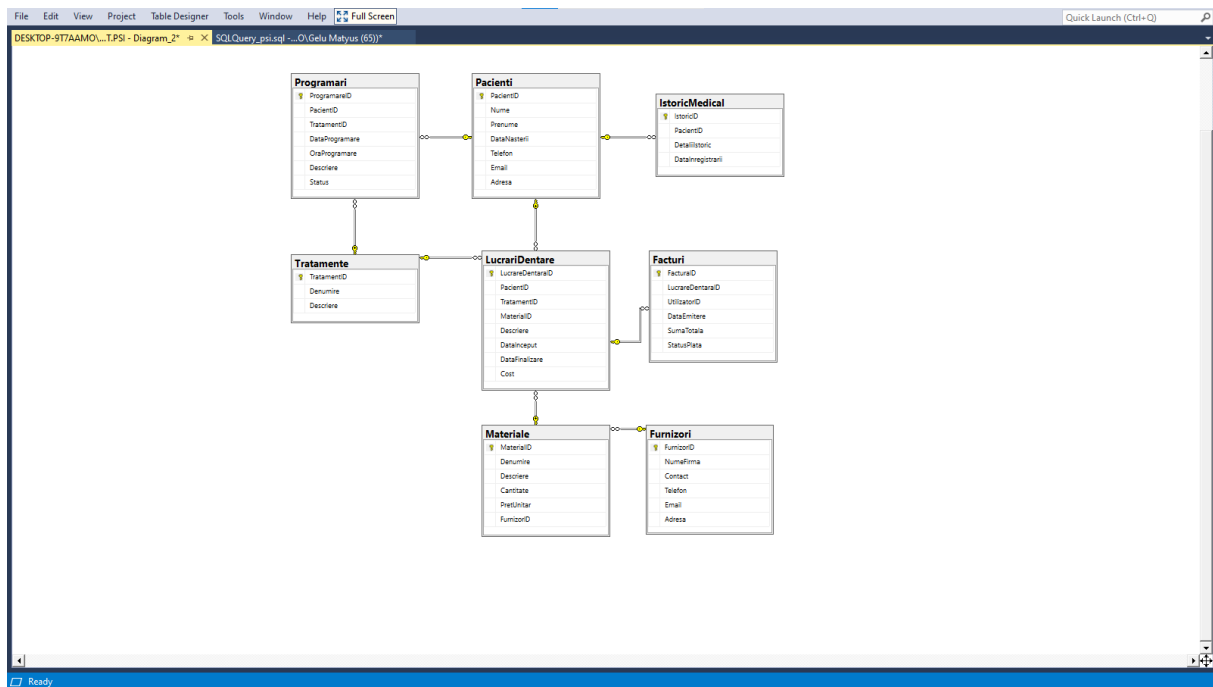|	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	LucrareDentaraID	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	PacientID	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
3	TratamentID	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
4	MaterialID	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
5	Descriere	text	no	16			yes	(n/a)	(n/a)	Romanian_CI_AS
6	DataInceput	date	no	3	10	0	yes	(n/a)	(n/a)	NULL
7	DataFinalizare	date	no	3	10	0	yes	(n/a)	(n/a)	NULL
8	Cost	decimal	no	9	10	2	yes	(n/a)	(n/a)	NULL

```sql
CREATE TABLE LucrariDentare (
    LucrareDentaraID INT PRIMARY KEY IDENTITY(1,1),
    PacientID INT,
    TratamentID INT,
    MaterialID INT,
    Descriere TEXT,
    DataInceput DATE,
    DataFinalizare DATE,
    Cost DECIMAL(10, 2),
    FOREIGN KEY (PacientID) REFERENCES Pacienti(PacientID),
    FOREIGN KEY (TratamentID) REFERENCES Tratamente(TratamentID),
    FOREIGN KEY (MaterialID) REFERENCES Materiale(MaterialID)
);
```

Tabelul Facturi:

	Column_name	Type	Computed	Length	Prec	Scale	Nullable	TrimTrailingBlanks	FixedLenNullInSource	Collation
1	FacturaID	int	no	4	10	0	no	(n/a)	(n/a)	NULL
2	LucrareDentaraID	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
3	UtilizatorID	int	no	4	10	0	yes	(n/a)	(n/a)	NULL
4	DataEmitere	date	no	3	10	0	yes	(n/a)	(n/a)	NULL
5	SumaTotala	decimal	no	9	10	2	yes	(n/a)	(n/a)	NULL
6	StatusPlata	varchar	no	50			yes	no	yes	Romanian_CI_AS

```sql
CREATE TABLE Facturi (
    FacturaID INT PRIMARY KEY IDENTITY(1,1),
    LucrareDentaraID INT,
    UtilizatorID INT,
    DataEmitere DATE,
    SumaTotala DECIMAL(10, 2),
    StatusPlata VARCHAR(50),
    FOREIGN KEY (LucrareDentaraID) REFERENCES LucrariDentare(LucrareDentaraID),
);
```

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Relatiile/Legaturile dintre tabele:

Securitatea bazei de date:

Roluri:

Tabel	Câmp (Tip, lungime)	Utilizator	Grup	Drepturi
Utilizatori	*	Admin	Administrators	Full Rights
	*	Operator	Users	Read only
Programari	*	Admin	Administrators	Full Rights
	*	Operator	Users	Read only
Tratamente	*	Admin	Administrators	Full Rights
	*	Operator	Users	Read only
Materiale	*	Admin	Administrators	Full Rights
	*	Operator	Users	Read only
Facturi	*	Admin	Administrators	Full Rights
	*	Operator	Users	Read only

Criptare:

Tabel	Câmp	Tip (lungime)	Criptare
Utilizatori	Parola	Text(50)	MD5
Medic	Parola	Text(50)	MD5

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	UtilizatorID	NumeUtilizator	ParolaHash	Rol	DataCrearii
1	1	admin	0D38A29A727A8F0C87CD8918585260F59A34DA92003810484...	Admin	2024-05-08
2	2	user1	0B14D501A594442A01C6859541BCB3E8164D183D32937B851...	User	2024-05-08
3	3	user2	6CF615D5BCAAC778352A8F1F3360D23F02F34EC182E259897...	User	2024-05-08
4	4	user3	5906AC361A137E2D286465CD6588EBB5AC3F5AE955001100...	User	2024-05-08

	UtilizatorID	NumeUtilizator	ParolaHash	Rol	DataCrearii
1	1	admin	0D38A29A727A8F0C87CD8918585260F59A34DA92003810484...	Admin	2024-05-08
2	2	user1	0B14D501A594442A01C6859541BCB3E8164D183D32937B851...	User	2024-05-08
3	3	user2	6CF615D5BCAAC778352A8F1F3360D23F02F34EC182E259897...	User	2024-05-08
4	4	user3	5906AC361A137E2D286465CD6588EBB5AC3F5AE955001100...	User	2024-05-08