



## Modelagem de Bancos de Dados para Microserviços

A seguir, a definição de tabelas e campos para cada banco, organizados por contexto de microserviço.

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### 1. AuthDB (Autenticação / Identity)

```
CREATE TABLEAspNetUsers (  
  Id CHAR(36) PRIMARY KEY,  
  UserName VARCHAR(256) UNIQUE NOT NULL,  
  NormalizedUserName VARCHAR(256) UNIQUE NOT NULL,  
  Email VARCHAR(256),  
  NormalizedEmail VARCHAR(256),  
  EmailConfirmed BIT NOT NULL,  
  PasswordHash TEXT,  
  SecurityStamp TEXT,  
  ConcurrencyStamp TEXT,  
  PhoneNumber VARCHAR(50),  
  PhoneNumberConfirmed BIT NOT NULL,  
  TwoFactorEnabled BIT NOT NULL,  
  LockoutEnd DATETIMEOFFSET,  
  LockoutEnabled BIT NOT NULL,  
  AccessFailedCount INT NOT NULL  
  -- campos adicionais podem ser estendidos via AppUser  
);  
  
CREATE TABLEAspNetRoles (  
  Id CHAR(36) PRIMARY KEY,  
  Name VARCHAR(256),  
  NormalizedName VARCHAR(256) UNIQUE,  
  ConcurrencyStamp TEXT  
);  
  
CREATE TABLEAspNetUserRoles (  
  UserId CHAR(36) NOT NULL,  
  RoleId CHAR(36) NOT NULL,  
  PRIMARY KEY (UserId, RoleId),  
  FOREIGN KEY (UserId) REFERENCES AspNetUsers(Id),  
  FOREIGN KEY (RoleId) REFERENCES AspNetRoles(Id)  
);  
-- demais tabelas padrão: AspNetUserClaims, AspNetRoleClaims,  
AspNetUserLogins, AspNetUserTokens
```

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## 2. ChurchDB (Gestão de Igrejas)

```
CREATE TABLE church_Igreja (  
  Id INT AUTO_INCREMENT PRIMARY KEY,  
  Nome VARCHAR(255) NOT NULL,  
  CNPJ VARCHAR(18) NOT NULL UNIQUE,  
  Endereco TEXT NOT NULL,  
  Email VARCHAR(255),  
  Telefone VARCHAR(20),  
  DataFundacao DATE,  
  Estatuto TEXT,  
  Denominacao VARCHAR(255),  
  Logo VARCHAR(512),  
  Status ENUM('Ativa', 'Inativa'),  
  Tipo ENUM('Sede', 'Congregacao')  
);  
  
CREATE TABLE church_Convencao (  
  Id INT AUTO_INCREMENT PRIMARY KEY,  
  Nome VARCHAR(255) NOT NULL,  
  Contato VARCHAR(255),  
  IgrejaId INT NOT NULL,  
  FOREIGN KEY (IgrejaId) REFERENCES church_Igreja(Id)  
);  
  
CREATE TABLE church_TipoPatrimonio (  
  Id INT AUTO_INCREMENT PRIMARY KEY,  
  Descricao VARCHAR(100) NOT NULL  
);  
  
CREATE TABLE church_Patrimonio (  
  Id INT AUTO_INCREMENT PRIMARY KEY,  
  Item VARCHAR(255) NOT NULL,  
  NumSerie VARCHAR(100),  
  Quantidade INT NOT NULL,  
  Locacao BOOLEAN NOT NULL,  
  TipoId INT NOT NULL,  
  AnoAquisicao YEAR,  
  VidaUtil INT,  
  EstadoConservacao ENUM('Bom', 'Regular', 'Ruim'),  
  ValorEstimado DECIMAL(14,2),  
  Observacoes TEXT,  
  FOREIGN KEY (TipoId) REFERENCES church_TipoPatrimonio(Id)  
);
```

### 3. MemberDB (Usuários & Família)

```
CREATE TABLE member_Usuario (  
  Id CHAR(36) PRIMARY KEY,  
  UserName VARCHAR(256) UNIQUE NOT NULL,  
  Email VARCHAR(256) UNIQUE,  
  Nome VARCHAR(255) NOT NULL,  
  DataNascimento DATE,  
  Telefone VARCHAR(20),  
  CPF VARCHAR(14) UNIQUE,  
  Endereco TEXT,  
  RG VARCHAR(20),  
  DataBatismo DATE,  
  Profissao VARCHAR(100),  
  EstadoCivil ENUM('Solteiro', 'Casado', 'Outro'),  
  DataCasamento DATE,  
  DataAdesao DATE,  
  Ativo BOOLEAN NOT NULL DEFAULT TRUE,  
  FuncaoPrincipal VARCHAR(100)  
);  
  
CREATE TABLE member_Familia (  
  Id INT AUTO_INCREMENT PRIMARY KEY,  
  NomeResponsavel VARCHAR(255) NOT NULL,  
  Endereco TEXT  
);  
  
CREATE TABLE member_MembroFamilia (  
  Id INT AUTO_INCREMENT PRIMARY KEY,  
  FamiliaId INT NOT NULL,  
  Nome VARCHAR(255) NOT NULL,  
  Parentesco VARCHAR(100),  
  UsuarioId CHAR(36),  
  FOREIGN KEY (FamiliaId) REFERENCES member_Familia(Id),  
  FOREIGN KEY (UsuarioId) REFERENCES member_Usuario(Id)  
);  
  
CREATE TABLE member_Interesse (  
  Id INT AUTO_INCREMENT PRIMARY KEY,  
  Nome VARCHAR(100) NOT NULL,  
  Descricao TEXT  
);  
  
CREATE TABLE member_UsuarioInteresse (  
  Id INT AUTO_INCREMENT PRIMARY KEY,  
  UsuarioId CHAR(36) NOT NULL,  
  InteresseId INT NOT NULL,  
  FOREIGN KEY (UsuarioId) REFERENCES member_Usuario(Id),  
  FOREIGN KEY (InteresseId) REFERENCES member_Interesse(Id)  
);
```

```

CREATE TABLE member_Ministerio (
  Id INT AUTO_INCREMENT PRIMARY KEY,
  Nome VARCHAR(255) NOT NULL,
  Descricao TEXT,
  LiderId CHAR(36),
  DataCriacao DATE,
  Status ENUM('Ativo','Inativo'),
  FOREIGN KEY (LiderId) REFERENCES member_Usuario(Id)
);

CREATE TABLE member_UsuarioMinisterio (
  UsuarioId CHAR(36) NOT NULL,
  MinisterioId INT NOT NULL,
  PRIMARY KEY (UsuarioId, MinisterioId),
  FOREIGN KEY (UsuarioId) REFERENCES member_Usuario(Id),
  FOREIGN KEY (MinisterioId) REFERENCES member_Ministerio(Id)
);

CREATE TABLE member_Papel (
  Id INT AUTO_INCREMENT PRIMARY KEY,
  Nome VARCHAR(100) NOT NULL
);

CREATE TABLE member_UsuarioPapel (
  UsuarioId CHAR(36) NOT NULL,
  PapelId INT NOT NULL,
  PRIMARY KEY (UsuarioId, PapelId),
  FOREIGN KEY (UsuarioId) REFERENCES member_Usuario(Id),
  FOREIGN KEY (PapelId) REFERENCES member_Papel(Id)
);

CREATE TABLE member_UsuarioHistorico (
  Id INT AUTO_INCREMENT PRIMARY KEY,
  UsuarioId CHAR(36) NOT NULL,
  TipoAlteracao VARCHAR(100),
  Data DATETIME NOT NULL,
  Detalhes TEXT,
  FOREIGN KEY (UsuarioId) REFERENCES member_Usuario(Id)
);

```

## 4. ContentDB (Publicações)

```

CREATE TABLE content_Publicacao (
  Id INT AUTO_INCREMENT PRIMARY KEY,
  AutorId CHAR(36) NOT NULL,
  DataPublicacao DATETIME NOT NULL,
  DataExpiracao DATETIME,

```

```

    Titulo VARCHAR(255) NOT NULL,
    Descricao TEXT,
    Tipo ENUM('Aviso','Evento','Artigo'),
    Visibilidade ENUM('Publico','Membros','Ministerio'),
    Notificar BOOLEAN NOT NULL,
    FOREIGN KEY (AutorId) REFERENCES member_usuario(Id)
);

CREATE TABLE content_PublicacaoDestinatario (
    Id INT AUTO_INCREMENT PRIMARY KEY,
    PublicacaoId INT NOT NULL,
    TipoDestino ENUM('Ministerio','Grupo','Usuario'),
    DestinoId CHAR(36) NOT NULL,
    FOREIGN KEY (PublicacaoId) REFERENCES content_Publicacao(Id)
);

CREATE TABLE content_Midia (
    Id INT AUTO_INCREMENT PRIMARY KEY,
    Tipo ENUM('Imagem','Video','Documento'),
    Url VARCHAR(512) NOT NULL,
    Descricao TEXT,
    Entidade ENUM('Publicacao','Evento'),
    EntidadeId INT NOT NULL
);

```

## 5. EventsDB (Eventos)

```

CREATE TABLE event_Evento (
    Id INT AUTO_INCREMENT PRIMARY KEY,
    Titulo VARCHAR(255) NOT NULL,
    Descricao TEXT,
    Inicio DATETIME NOT NULL,
    Fim DATETIME,
    Local VARCHAR(255),
    Periodicidade ENUM('Unico','Diario','Semanal','Mensal','Anual'),
    MinisterioId INT,
    PublicoAlvo ENUM('Membros','Lideres','Publico'),
    FOREIGN KEY (MinisterioId) REFERENCES member_Ministerio(Id)
);

CREATE TABLE event_Presenca (
    Id INT AUTO_INCREMENT PRIMARY KEY,
    EventoId INT NOT NULL,
    UsuarioId CHAR(36) NOT NULL,
    Presente BOOLEAN NOT NULL,
    Observacoes TEXT,
    FOREIGN KEY (EventoId) REFERENCES event_Evento(Id),

```

```
FOREIGN KEY (UsuarioId) REFERENCES member_Usuario(Id)
);
```

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## 6. FinanceDB (Ofertas & Dízimos)

```
CREATE TABLE finance_OfertaDizimo (
  Id INT AUTO_INCREMENT PRIMARY KEY,
  UsuarioId CHAR(36) NOT NULL,
  Tipo ENUM('Dizimo', 'Oferta', 'Campanha'),
  Valor DECIMAL(14,2) NOT NULL,
  Data DATE NOT NULL,
  Observacoes TEXT,
  FOREIGN KEY (UsuarioId) REFERENCES member_Usuario(Id)
);
```

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## 7. CounselingDB (Aconselhamentos)

```
CREATE TABLE counseling_Aconselhamento (
  Id INT AUTO_INCREMENT PRIMARY KEY,
  UsuarioId CHAR(36) NOT NULL,
  PastorId CHAR(36) NOT NULL,
  Data DATETIME NOT NULL,
  TipoAtendimento VARCHAR(100),
  Descricao TEXT,
  Sigilo BOOLEAN NOT NULL,
  FOREIGN KEY (UsuarioId) REFERENCES member_Usuario(Id),
  FOREIGN KEY (PastorId) REFERENCES member_Usuario(Id)
);
```