Data dictionary of @DatabaseName

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| ****Roles**** | | | | |
| **KEY** | **FIELD NAME** | **DATA TYPE / FIELD SIZE** | **REQUIRED?** | **NOTES** |
| PK | RoleId | INTEGER | - | Auto increment |
|  | Name | NVARCHAR (50) | Y | Role name |
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| ****InsuranceCompanies**** | | | | |
| **KEY** | **FIELD NAME** | **DATA TYPE / FIELD SIZE** | **REQUIRED?** | **NOTES** |
| PK | CompanyId | INTEGER | - | Auto increment |
|  | Name | NVARCHAR (100) | Y | Company name |
|  | Address | NVARCHAR (200) | Y | Tax identification number |
|  | Address | NVARCHAR (20) | Y | Bank account number |
|  | BIC | NVARCHAR  (9) | Y | Bank identifier code |
|  | IsArchived | BIT | N | Default: 0 (false) |

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| ****SystemUsers**** | | | | |
| **KEY** | **FIELD NAME** | **DATA TYPE / FIELD SIZE** | **REQUIRED?** | **NOTES** |
| PK | UserId | INTEGER | - | Auto increment |
|  | Login | NVARCHAR (50) | Y | Unique login identifier |
|  | Password | NVARCHAR (100) | Y | Hashed password |
|  | FirstName | NVARCHAR (50) | Y | User’s first name |
|  | MiddleName | NVARCHAR  (50) | Y | User’s middle name (optional) |
|  | LastName | NVARCHAR  (50) | Y | User’s last name |
|  | RoleId | INTEGER | Y | Foreign key |
|  | LastLogin | DATETIME | N | Last successful login timestamp |
|  | Photo | VARBINARY | N | Profile picture (binary) |
|  | IsBlocked | BIT | N | Default: 0 (false) |
|  | BlockedUntil | DATETIME | N | Temporary block expiration |
|  | IsArchived | BIT | N | Default: 0 (false) |
|  | LastEnterTime | DATETIME | N | Last session activity |
|  | SessionStartTime | DATETIME | N | Current session start time |
|  | SessionDuration | INTEGER | N | Session length in seconds |

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| ****LoginHistory**** | | | | |
| **KEY** | **FIELD NAME** | **DATA TYPE / FIELD SIZE** | **REQUIRED?** | **NOTES** |
| PK | LoginHistoryId | INTEGER | - | Auto increment, PK |
|  | UserId | INTEGER | - | Foreign key |
|  | Login | NVARCHAR  (50) | Y | Attempted login |
|  | AttemptTime | DATETIME | Y | Timestamp of login attempt |
|  | IsSuccess | BIT | Y | 1 = success, 0 = failure |
|  | IPAddress | NVARCHAR  (15) | N | IP address of the attempt |
|  | UserAgent | NVARCHAR  (500) | N | Browser/device info |
|  | DeviceType | NVARCHAR  (50) | N | Desktop/Mobile/Tablet |

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| ****Patients**** | | | | |
| **KEY** | **FIELD NAME** | **DATA TYPE / FIELD SIZE** | **REQUIRED?** | **NOTES** |
| PK | PatientId | INTEGER | - | Auto increment, PK |
|  | Login | NVARCHAR (50) | Y | Patient’s login |
|  | Password | NVARCHAR  (100) | Y | Hashed password |
|  | FirstName | NVARCHAR  (50) | Y | Patient’s first name |
|  | MiddleName | NVARCHAR  (50) | Y | Patient’s middle name (optional) |
|  | LastName | NVARCHAR  (50) | Y | Patient’s last name |
|  | BirthDate | DATE | Y | Date of birth (YYYY-MM-DD) |
|  | PassportSeries | NVARCHAR  (4) | Y | Passport series (e.g., "1234") |
|  | PassportNumber | NVARCHAR  (6) | Y | Passport number (e.g., "567890") |
|  | Phone | NVARCHAR  (15) | Y | Contact phone number |
|  | Email | NVARCHAR  (100) | Y | Contact email (optional) |
|  | InsurancePolicyNumber | NVARCHAR  (20) | Y | Insurance policy ID |
|  | InsurancePolicyType | NVARCHAR  (50) | Y | "ОМС" (mandatory) / "ДМС" (voluntary) |
|  | InsuranceCompanyId | INTEGER | Y | Foreign key (InsuranceCompanies  .CompanyId) |
|  | Photo | VARBINARY | N | Patient’s photo (optional) |
|  | IsArchived | BIT | N | Default: 0 (false) |

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| ****Orders**** | | | | |
| **KEY** | **FIELD NAME** | **DATA TYPE / FIELD SIZE** | **REQUIRED?** | **NOTES** |
| PK | OrderId | INTEGER | - | Auto increment |
|  | PatientId | INTEGER | Y | Foreign key (Patients.PatientId) |
|  | Barcode | NVARCHAR  (20) | Y | Unique order identifier |
|  | CreationDate | DATETIME | Y | Order creation timestamp |
|  | Status | NVARCHAR  (20) | Y | "Новый"/"В работе"/"Завершен"/"Отменен" |
|  | IsArchived | BIT | N | Default: 0 (false) |

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| ****Services**** | | | | |
| **KEY** | **FIELD NAME** | **DATA TYPE / FIELD SIZE** | **REQUIRED?** | **NOTES** |
| PK | ServiceId | INTEGER | - | Auto increment |
|  | Code | NVARCHAR  (10) | Y | Service code (e.g., "A01") |
|  | Barcode | NVARCHAR  (20) | Y | Unique order identifier |
|  | CreationDate | DATETIME | Y | Order creation timestamp |
|  | Status | NVARCHAR  (20) | Y | "Новый"/"В работе"/"Завершен"/"Отменен" |
|  | IsArchived | BIT | N | Default: 0 (false) |
|  | Name | NVARCHAR  (100) | Y | Service name (e.g., "Общий анализ крови") |
|  | Price | DECIMAL  (10,2) | Y | Cost in RUB |
|  | ExecutionTimeDays | INTEGER | Y | Estimated processing time (days) |
|  | AverageDeviation | DECIMAL  (10,2) | Y | Time deviation tolerance |
|  | IsArchived | BIT | N | Default: 0 (false) |
|  | AvailableAnalyzers | NVARCHAR | N | Comma-separated analyzer IDs (e.g., "1,2,3") |

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| ****OrderServices**** | | | | |
| **KEY** | **FIELD NAME** | **DATA TYPE / FIELD SIZE** | **REQUIRED?** | **NOTES** |
| PK | OrderServiceId | INTEGER | - | Auto increment |
|  | OrderId | INTEGER | Y | Foreign key (Orders.OrderId) |
|  | ServiceId | INTEGER | Y | Foreign key (Services.ServiceId) |
|  | Status | NVARCHAR  (20) | Y | "Назначено"/"В работе"/"Завершено"/"Отменено" |
|  | ExecutionTimeSeconds | INTEGER | N | Actual processing time (seconds) |
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| ****Analyzers**** | | | | |
| **KEY** | **FIELD NAME** | **DATA TYPE / FIELD SIZE** | **REQUIRED?** | **NOTES** |
| PK | AnalyzerId | INTEGER | - | Auto increment |
|  | Name | NVARCHAR  (50) | Y | Analyzer name (e.g., "Гематологический анализатор")) |
|  | IsArchived | BIT | N | Default: 0 (false) |
|  | AnalyzerModel | NVARCHAR  (100) | n | Model name (e.g., "ABC-2000") |
|  | AnalyzerManufacturer | NVARCHAR  (100) | N | Manufacturer name (e.g., "MedTech") |
|  | LastCalibrationDate | DATETIME | N | Last maintenance date |

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| ****PerformedServices**** | | | | |
| **KEY** | **FIELD NAME** | **DATA TYPE / FIELD SIZE** | **REQUIRED?** | **NOTES** |
| PK | PerformedServiceId | INTEGER | - | Auto increment |
|  | OrderServiceId | INTEGER | Y | Foreign key (OrderServices.OrderServiceId) |
|  | PerformedDate | DATETIME | Y | Completion timestamp |
|  | AnalyzerId | INTEGER | Y | Foreign key (Analyzers.AnalyzerId) |
|  | Result | NVARCHAR | N | Analysis results (text/JSON) |
|  | IsArchived | BIT | N | Default: 0 (false) |

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| ****InsuranceInvoices**** | | | | |
| **KEY** | **FIELD NAME** | **DATA TYPE / FIELD SIZE** | **REQUIRED?** | **NOTES** |
| PK | InvoiceId | INTEGER | - | Auto increment |
|  | InsuranceCompanyId | INTEGER | Y | Foreign key (InsuranceCompanies.CompanyId) |
|  | OrderId | INTEGER | Y | Foreign key (InsuranceCompanies.CompanyId) |
|  | CreationDate | DATETIME | Y | Invoice generation date |
|  | Amount | DECIMAL  (10,2) | Y | Invoice sum (RUB) |
|  | IsPaid | BIT | N | Default: 0 (false) |
|  | IsArchived | BIT | N | Default: 0 (false) |

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| ****Biomaterials**** | | | | |
| **KEY** | **FIELD NAME** | **DATA TYPE / FIELD SIZE** | **REQUIRED?** | **NOTES** |
| PK | BiomaterialId | INTEGER | - | Auto increment |
|  | Barcode | NVARCHAR (50) | Y | Unique sample identifier |
|  | PatientId | INTEGER | Y | Foreign key (Patients.PatientId) |
|  | Type | NVARCHAR (50) | Y | "Кровь"/"Моча"/"Кал"/"Слюна" etc. |
|  | CollectionDateTime | DATETIME | Y | Sample collection timestamp |
|  | Status | NVARCHAR (50) | Y | "Собран"/"Доставлен"/  "Анализируется"/  "Хранение" |
|  | Notes | NVARCHAR | N | Additional comments |
|  | IsArchived | BIT | N | Default: 0 (false) |

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| ****Supplies**** | | | | |
| **KEY** | **FIELD NAME** | **DATA TYPE / FIELD SIZE** | **REQUIRED?** | **NOTES** |
| PK | SupplyId | INTEGER | - | Auto increment |
|  | Name | NVARCHAR (50) | Y | Supply item name (e.g., "Пробирки") |
|  | Quantity | INTEGER | Y | Current stock count |
|  | Unit | NVARCHAR  (20) | Y | Measurement unit (e.g., "шт"/"л"/"кг") |
|  | IsArchived | BIT | N | Default: 0 (false) |

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| ****UserServices**** | | | | |
| **KEY** | **FIELD NAME** | **DATA TYPE / FIELD SIZE** | **REQUIRED?** | **NOTES** |
| PK | UserServiceId | INTEGER | - | Auto increment |
|  | UserId | INTEGER | Y | Foreign key (SystemUsers.UserId) |
|  | ServiceId | INTEGER | Y | Foreign key (Services.ServiceId) |
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