**LAPORAN TUGAS SISTEM INFORMASI PENGELOLAAN PERSEDIAAN OBAT IF-UN FARMA**

**Develop Required Data Model & Enhanced**

**PERANCANGAN SISTEM**

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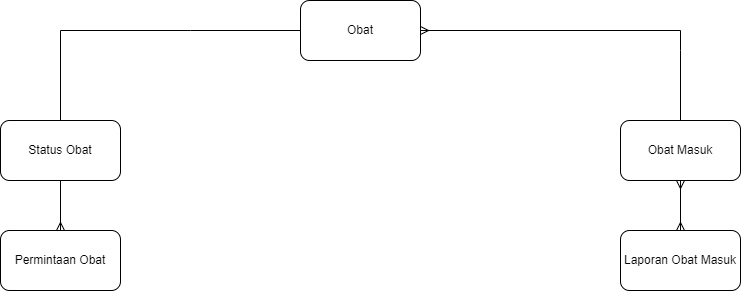
**TEKNIK INFORMATIKA**

**UNIVERSITAS PASUNDAN**

**BANDUNG**

**2024**

1. LDS berdasarkan LDS Overview dan DFD Reqired serta Business System



1. Entity Description

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| **Entity Descriptions** | | |
| **Current/ ~~Required/Enhanced~~** | | |
| **Entity Name:** Obat | | **Entity ID:** 1 |
| **Location** N/A | **Occurances Average Max** | |
| **Description** | | |
| Entitas obat untuk menyimpan data obat yang ada di apotek. | | |

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| **Synonim(s):** | | | | | | |
| **Attribute Name/ID** | | | | **Primary Key** | | **Foreign Key** |
| 1. id\_obat 2. nama\_obat 3. tgl\_kedaluwarsa | | | | √ | |  |
| **No** | **‘must be’/**  **‘may be’** | **‘Eithe r’/**  **‘or’** | **Link Phrase** | | **‘one and onlyone’**  **/ ‘one or more’** | **Object Entity Name** |
| 1  2 | Must be Must be |  | Menghasilkan Menghasilkan | | One One | Status Obat Obat Masuk |
| **Notes** | | | | | | |
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| **Entity Descriptions** | | | | | | | | |
| **Current/ ~~Required/Enhanced~~** | | | | | | | | |
| **Entity Name:** Status Obat | | | | | | | **Entity ID: 2** | |
| **Location** N/A | | | **Occurances Average Max** | | | | | |
| **Description** | | | | | | | | |
| Entitas ini terdapat informasi terkait status obat yang ada di apotek | | | | | | | | |
| **Synonim(s):** | | | | | | | | |
| **Attribute Name/ID** | | | | | **Primary Key** | | | **Foreign Key** |
| 1. id\_status\_obat 2. nama\_status 3. id\_obat | | | | | √ | | | √ |
| **No** | **‘must be’/**  **‘may be’** | **‘Eithe r’/**  **‘or’** | | **Link Phrase** | | **‘one and onlyone’**  **/ ‘one or more’** | | **Object Entity Name** |
| 1  2 | Must be Must be |  | | Dihasilkan  Menghasilkan | | One  One or More | | Obat  Permintaan Obat |
| **Notes** | | | | | | | | |
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| **Entity Descriptions** | | | | | | | | |
| **Current/ ~~Required/Enhanced~~** | | | | | | | | |
| **Entity Name:** Permintaan Obat | | | | | | | **Entity ID: 3** | |
| **Location N/A** | | | | | | | **Occurances Average Max** | |
| **Description** | | | | | | | | |
| Entitas ini terdapat informasi terkait permintaan obat kepada sistem pengadaan | | | | | | | | |
| **Synonim(s):** | | | | | | | | |
| **Attribute Name/ID** | | | | | **Primary Key** | | | **Foreign Key** |
| 1. id\_permintaan 2. tgl\_permintaan 3. id\_status | | | | | √ | | | √ |
| **No** | **‘must be’/**  **‘may be’** | **‘Eithe r’/**  **‘or’** | | **Link Phrase** | | **‘one and onlyone’**  **/ ‘one or more’** | | **Object Entity Name** |
| 1 | Must be |  | | Dihasilkan | | One | | Status Obat |
| **Notes** | | | | | | | | |
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| **Entity Descriptions** | | | | | | | | |
| **Current/ ~~Required/Enhanced~~** | | | | | | | | |
| **Entity Name:** Obat Masuk | | | | | | | **Entity ID: 4** | |
| **Location** N/A | | | **Occurances Average Max** | | | | | |
| **Description** | | | | | | | | |
| Entitas obat untuk menyimpan data obat yang masuk dari sistem pengadaan | | | | | | | | |
| **Synonim(s):** | | | | | | | | |
| **Attribute Name/ID** | | | | | **Primary Key** | | | **Foreign Key** |
| 1. id\_obat\_masuk 2. jml\_obat 3. tgl\_masuk 4. id\_obat | | | | | √ | | | √ |
| **No** | **‘must be’/**  **‘may be’** | **‘Either’/**  **‘or’** | | **Link Phrase** | | **‘one and onlyone’**  **/ ‘one or more’** | | **Object Entity Name** |
| 1  2 | Must be Must be |  | | Dihasilkan  Menghasilkan | | One or More One or More | | Obat  Laporan Obat Masuk |
| **Notes** | | | | | | | | |
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| **Entity Descriptions** | | | | | | | | |
| **Current/ ~~Required/Enhanced~~** | | | | | | | | |
| **Entity Name:** Laporan Obat Masuk | | | | | | | **Entity ID: 5** | |
| **Location** N/A | | | **Occurances Average Max** | | | | | |
| **Description** | | | | | | | | |
| Entitas ini terdapat informasi terkait obat yang masuk dari sistem pengadaan | | | | | | | | |
| **Synonim(s):** | | | | | | | | |
| **Attribute Name/ID** | | | | | **Primary Key** | | | **Foreign Key** |
| 1. id\_laporan 2. pembuat\_laporan 3. tgl\_pembuatan 4. id\_obat\_masuk | | | | | √ | | | √ |
| **No** | **‘must be’/**  **‘may be’** | **‘Either’/**  **‘or’** | | **Link Phrase** | | **‘one and onlyone’**  **/ ‘one or more’** | | **Object Entity Name** |
| 1 | Must be |  | | Dihasilkan | | One or More | | Obat Masuk |
| **Notes** | | | | | | | | |
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1. Relationship Description

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| **Relationship Description** | | | | | | | |
| **Current/ ~~Required/Enhanced~~** | | | | | | | |
| **Entity Name:** Obat | | | | | | | |
| **Mandatory** | ☑ | **Optional** | |  | **%Optional** |  |  |
| **Link Phrase:** Menghasilkan | | | | | | | |
| **Description**  Setiap obat harus menghasilkan satu status obat | | | | | | | |
| **Synonim(s)** | | | | | | | |
| **Object Entity Name: Status Obat** | | | | | | | |
| **One(1:)** 1:1 **one(1:)** | | | | | | | |
| **Cardinality Description:** Satu obat menghasilkan satu status obat | | | | | | | |
| **Growth Per Periode: Setiap 1 bulan sekali** | | | | | | | |
| **Additional Properties: -** | | | | | | | |
| **User Role** | | | **Access Rights** | | | | |
| Gudang Apoteker | | | Read, Write, Modify, Delete, Archive Read, Archive | | | | |
| Sistem Penjualan Obat  Sistem Pengelolaan Etalase Obat di Apotek Sistem Pemasaran  Sistem Peracikan Obat | | | Read Read Read Read | | | | |
| **Owner:** Gudang | | | | | | | |

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| **Relationship Description** | | | | | | | |
| **Current/ ~~Required/Enhanced~~** | | | | | | | |
| **Entity Name:** Obat | | | | | | | |
| **Mandatory** | ☑ | **Optional** | |  | **%Optional** |  |  |
| **Link Phrase:** Menghasilkan | | | | | | | |
| **Description**  Banyak obat harus menghasilkan satu atau lebih transaksi obat masuk | | | | | | | |
| **Synonim(s)** | | | | | | | |
| **Object Entity Name: Obat Masuk** | | | | | | | |
| **Many(M:)** M:M **one(1:)** | | | | | | | |
| **Cardinality Description:** Banyak obat menghasilkan banyak transaksi obat masuk | | | | | | | |
| **Growth Per Periode: Setiap 1 bulan sekali** | | | | | | | |
| **Additional Properties: -** | | | | | | | |
| **User Role** | | | **Access Rights** | | | | |
| Gudang Apoteker | | | Read, Write, Modify, Delete, Archive Read, Archive | | | | |
| Sistem Penjualan Obat  Sistem Pengelolaan Etalase Obat di Apotek Sistem Pemasaran  Sistem Peracikan Obat | | | Read Read Read Read | | | | |
| **Owner:** Gudang | | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- |
| **Relationship Description** | | | | | | |
| **Current/ ~~Required/Enhanced~~** | | | | | | |
| **Entity Name:** Status Obat | | | | | | |
| **Mandatory** | ☑ | **Optional** |  | **%Optional** |  |  |
| **Link Phrase:** Dihasilkan dari | | | | | | |
| **Description**  Setiap status obat harus dihasilkan dari satu obat | | | | | | |
| **Synonim(s)** | | | | | | |
| **Object Entity Name: Obat** | | | | | | |
| **One(1:)** 1:1 **one(1:)** | | | | | | |
| **Cardinality Description: S**atu status obat dihasilkan dari satu obat | | | | | | |
| **Growth Per Periode: Setiap 1 bulan sekali** | | | | | | |

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| **Relationship Description** | | | | | | |
| **Current/ ~~Required/Enhanced~~** | | | | | | |
| **Entity Name:** Status Obat | | | | | | |
| **Mandatory** | ☑ | **Optional** |  | **%Optional** |  |  |
| **Link Phrase:** Dihasilkan dari | | | | | | |
| **Description**  Setiap status obat harus dihasilkan dari satu obat | | | | | | |
| **Synonim(s)** | | | | | | |
| **Object Entity Name: Obat** | | | | | | |
| **One(1:)** 1:1 **one(1:)** | | | | | | |
| **Cardinality Description: S**atu status obat dihasilkan dari satu obat | | | | | | |
| **Growth Per Periode: Setiap 1 bulan sekali** | | | | | | |

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| **Relationship Description** | | | | | | | |
| **Current/ ~~Required/Enhanced~~** | | | | | | | |
| **Entity Name:** Status Obat | | | | | | | |
| **Mandatory** | ☑ | **Optional** | |  | **%Optional** |  |  |
| **Link Phrase:** Menghasilkan | | | | | | | |
| **Description**  Setiap status obat harus menghasilkan satu atau lebih permintaan obat | | | | | | | |
| **Synonim(s)** | | | | | | | |
| **Object Entity Name: Obat** | | | | | | | |
| **One(1:)** 1:M **Many(M:)** | | | | | | | |
| **Cardinality Description: S**atu status obat menghasilkan banyak permintaan obat | | | | | | | |
| **Growth Per Periode: Setiap 1 bulan sekali** | | | | | | | |
| **Additional Properties: -** | | | | | | | |
| **User Role** | | | **Access Rights** | | | | |
| Gudang Apoteker | | | Read, Write, Modify, Delete, Archive Read, Archive | | | | |
| Sistem Penjualan Obat  Sistem Pengelolaan Etalase Obat di Apotek Sistem Pemasaran  Sistem Peracikan Obat | | | Read Read Read Read | | | | |
| **Owner:** Gudang | | | | | | | |

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| **Relationship Description** | | | | | | | |
| **Current/ ~~Required/Enhanced~~** | | | | | | | |
| **Entity Name:** Obat Masuk | | | | | | | |
| **Mandatory** | ☑ | **Optional** | |  | **%Optional** |  |  |
| **Link Phrase:** Dihasilkan dari | | | | | | | |
| **Description**  Banyak obat harus dihasilkan dari satu atau lebih transaksi obat masuk | | | | | | | |
| **Synonim(s)** | | | | | | | |
| **Object Entity Name: Obat** | | | | | | | |
| **Many(M:)** M:M **Many(M:)** | | | | | | | |
| **Cardinality Description:** Banyak obat dihasilkan dari banyak transaksi obat masuk | | | | | | | |
| **Growth Per Periode: Setiap 1 bulan sekali** | | | | | | | |
| **Additional Properties: -** | | | | | | | |
| **User Role** | | | **Access Rights** | | | | |
| Gudang Apoteker | | | Read, Write, Modify, Delete, Archive Read, Archive | | | | |
| **Owner:** Gudang | | | | | | | |

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| **Relationship Description** | | | | | | | |
| **Current/ ~~Required/Enhanced~~** | | | | | | | |
| **Entity Name:** Obat Masuk | | | | | | | |
| **Mandatory** | ☑ | **Optional** | |  | **%Optional** |  |  |
| **Link Phrase:** Menghasilkan | | | | | | | |
| **Description**  Setiap obat masuk harus menghasilkan satu atau lebih transaksi obat masuk | | | | | | | |
| **Synonim(s)** | | | | | | | |
| **Object Entity Name: Laporan Obat Masuk** | | | | | | | |
| **Many(M:)** M:M **Many(M:)** | | | | | | | |
| **Cardinality Description:** Banyak obat dihasilkan dari banyak transaksi obat masuk | | | | | | | |
| **Growth Per Periode: Setiap 1 bulan sekali** | | | | | | | |
| **Additional Properties: -** | | | | | | | |
| **User Role** | | | **Access Rights** | | | | |
| Gudang Apoteker | | | Read, Write, Modify, Delete, Archive Read, Archive | | | | |
| Owner : Gudang | | | | | | | |

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| **Relationship Description** | | | | | | | |
| **Current/ ~~Required/Enhanced~~** | | | | | | | |
| **Entity Name:** Permintaan Obat | | | | | | | |
| **Mandatory** | ☑ | **Optional** | |  | **%Optional** |  |  |
| **Link Phrase:** Dihasilkan dari | | | | | | | |
| **Description**  Setiap permintaan obat harus dihasilkan dari satu status obat | | | | | | | |
| **Synonim(s)** | | | | | | | |
| **Object Entity Name: Status Obat** | | | | | | | |
| **Many(M:)** M:1 **One(1:)** | | | | | | | |
| **Cardinality Description:** Banyak obat dihasilkan dari satu status obat | | | | | | | |
| **Growth Per Periode: Setiap 1 bulan sekali** | | | | | | | |
| **Additional Properties: -** | | | | | | | |
| **User Role** | | | **Access Rights** | | | | |
| Gudang Apoteker | | | Read, Write, Modify, Delete, Archive Read, Archive | | | | |
| **Owner:** Gudang | | | | | | | |

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| **Relationship Description** | | | | | | |
| **Current/ ~~Required/Enhanced~~** | | | | | | |
| **Entity Name:** Laporan Obat Masuk | | | | | | |
| **Mandatory** | ☑ | **Optional** |  | **%Optional** |  |  |
| **Link Phrase:** Dihasilkan dari | | | | | | |
| **Description**  Setiap laporan obat masuk harus dihasilkan dari banyak obat masuk | | | | | | |
| **Synonim(s)** | | | | | | |
| **Object Entity Name: Obat Masuk** | | | | | | |
| **Many(M:)** M:M **Many(M:)** | | | | | | |
| **Cardinality Description:** Banyak laporan obat dihasilkan dari banyak obat masuk | | | | | | |
| |  |  | | --- | --- | | **Additional Properties: -** | | | **User Role** | **Access Rights** | | Gudang Apoteker | Read, Write, Modify, Delete, Archive Read, Archive | | **Owner:** Gudang | |   **Growth Per Periode: Setiap 1 bulan sekali** | | | | | | |

1. Attribute Item/Data Description

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| **Attribute/Data Item Description** | | | | | | |
| **Attribute/data item name:**  id\_obat | | | | **Attribute/data item ID:** 1 | | |
| **Cross Reference name/ID** | | | **Cross Reference Type** | | | |
| Obat | | | Entity Description | | | |
| **Synonim(s)** | | | | | | |
| **Description** | | | | | | |
| id\_obat menjadi pembeda dengan obat yang lain | | | | | | |
| **Validation/derivation** | | | | | | |
| **Mandatory** | **√** | **Default Value** | **Optional** | |  | **Value for Null** |
| **Logical Format:** XXXXXXXX | | | **Unit of measure :** Int | | | |
| **Logical length :** 8 | | | **Length Description:** fixed | | | |

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| **Attribute/Data Item Description** | | | | | | |
| **Attribute/data item name:**  nama\_obat | | | | **Attribute/data item ID:** 1 | | |
| **Cross Reference name/ID** | | | **Cross Reference Type** | | | |
| Obat | | | Entity Description | | | |
| **Synonim(s)** | | | | | | |
| **Description** | | | | | | |
| Nama\_obat digunakan untuk menampung atau merekam nama dari suatu obat yang terdaftar dalam sistem. | | | | | | |
| **Validation/derivation** | | | | | | |
| **Mandatory** | **√** | **Default Value** | **Optional** | |  | **Value for Null** |
| **Logical Format:** XXXXXXXX | | | **Unit of measure : S**tring | | | |
| **Logical length :** 50 | | | **Length Description:** fixed | | | |

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| **Attribute/Data Item Description** | | | | | | |
| **Attribute/data item name:**  tgl\_kedaluwarsa | | | | **Attribute/data item ID:** 1 | | |
| **Cross Reference name/ID** | | | **Cross Reference Type** | | | |
| Obat | | | Entity Description | | | |
| **Synonim(s)** | | | | | | |
| **Description** | | | | | | |
| Tgl\_kadaluwarsa digunakan untuk menampung atau merekam tanggal kedaluwarsa dari suatu obat. | | | | | | |
| **Validation/derivation** | | | | | | |
| **Mandatory** | **√** | **Default Value** | **Optional** | |  | **Value for Null** |
| **Logical Format:** XXXXXX | | | **Unit of measure :** Year | | | |
| **Logical length : 6** | | | **Length Description:** fixed | | | |

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| **Attribute/Data Item Description** | | |
| **Attribute/data item name:**  id\_status\_obat | | **Attribute/data item ID: 2** |
| **Cross Reference name/ID** | **Cross Reference Type** | |
| Status Obat | Entity Description | |
| **Synonim(s)** | | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | id\_status\_obat digunakan untuk menampung atau merekam kode atau identifikasi unik yang mengidentifikasi status suatu obat dalam sistem. | | | | | | | **Validation/derivation** | | | | | | | **Mandatory** | **√** | **Default Value** | **Optional** |  | **Value for Null** | | **Logical Format:** XXXXXXXX | | | **Unit of measure :** Int | | | | **Logical length :** 8 | | | **Length Description:** fixed | | |   **Description** | | |

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| **Attribute/Data Item Description** | | | | | | |
| **Attribute/data item name:**  nama\_status | | | | **Attribute/data item ID: 2** | | |
| **Cross Reference name/ID** | | | **Cross Reference Type** | | | |
| Status Obat | | | Entity Description | | | |
| **Synonim(s)** | | | | | | |
| **Description** | | | | | | |
| Nama\_status digunakan untuk menampung atau merekam deskripsi atau nama dari status suatu obat dalam sistem. | | | | | | |
| **Validation/derivation** | | | | | | |
| **Mandatory** | **√** | **Default Value** | **Optional** | |  | **Value for Null** |
| **Logical Format:** XXXXXXXX | | | **Unit of measure :** String | | | |
| **Logical length : 50** | | | **Length Description:** fixed | | | |

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| **Attribute/Data Item Description** | | | | | | |
| **Attribute/data item name:**  id\_permintaan | | | | **Attribute/data item ID: 3** | | |
| **Cross Reference name/ID** | | | **Cross Reference Type** | | | |
| Permintaan obat | | | Entity Description | | | |
| **Synonim(s)** | | | | | | |
| **Description** | | | | | | |
| Id\_permintaan digunakan untuk menampung atau merekam kode atau identifikasi unik yang mengidentifikasi sebuah permintaan tertentu dalam sistem. | | | | | | |
| **Validation/derivation** | | | | | | |
| **Mandatory** | **√** | **Default Value** | **Optional** | |  | **Value for Null** |
| **Logical Format:** XXXXXXXX | | | **Unit of measure :** Int | | | |
| **Logical length :** 8 | | | **Length Description:** fixed | | | |

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| **Attribute/Data Item Description** | | | | | | |
| **Attribute/data item name:**  Id\_status | | | | **Attribute/data item ID: 3** | | |
| **Cross Reference name/ID** | | | **Cross Reference Type** | | | |
| Permintaan obat | | | Entity Description | | | |
| **Synonim(s)** | | | | | | |
| **Description** | | | | | | |
| Id\_status digunakan untuk menampung atau merekam kode atau identifikasi unik yang mengidentifikasi status suatu entitas dalam sistem. | | | | | | |
| **Validation/derivation** | | | | | | |
| **Mandatory** | **√** | **Default Value** | **Optional** | |  | **Value for Null** |
| **Logical Format:** XXXXXXXX | | | **Unit of measure :** Int | | | |
| **Logical length :** 8 | | | **Length Description:** fixed | | | |

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| **Attribute/Data Item Description** | | | | | | |
| **Attribute/data item name:**  Id\_obat\_masuk | | | | **Attribute/data item ID: 4** | | |
| **Cross Reference name/ID** | | | **Cross Reference Type** | | | |
| Obat masuk | | | Entity Description | | | |
| **Synonim(s)** | | | | | | |
| **Description** | | | | | | |
| Id\_obat\_masuk digunakan untuk menampung atau merekam kode atau identifikasi unik yang mengidentifikasi sebuah transaksi atau entitas spesifik yang mencatat masuknya obat ke  dalam stok. | | | | | | |
| **Validation/derivation** | | | | | | |
| **Mandatory** | **√** | **Default Value** | **Optional** | |  | **Value for Null** |
| **Logical Format:** XXXXXXXX | | | **Unit of measure :** Int | | | |
| **Logical length :** 8 | | | **Length Description:** fixed | | | |

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| **Attribute/Data Item Description** | | | | | | |
| **Attribute/data item name:**  Jml\_obat | | | | **Attribute/data item ID: 4** | | |
| **Cross Reference name/ID** | | | **Cross Reference Type** | | | |
| Obat masuk | | | Entity Description | | | |
| **Synonim(s)** | | | | | | |
| **Description** | | | | | | |
| Jml\_obat digunakan untuk menampung atau merekam jumlah obat tertentu dalam suatu transaksi, entitas, atau kejadian tertentu dalam sistem manajemen obat. | | | | | | |
| **Validation/derivation** | | | | | | |
| **Mandatory** | **√** | **Default Value** | **Optional** | |  | **Value for Null** |
| **Logical Format:** XXXXXXXX | | | **Unit of measure :** Int | | | |
| **Logical length :** 8 | | | **Length Description:** fixed | | | |

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| **Attribute/Data Item Description** | | | | | | |
| **Attribute/data item name:**  Tgl\_masuk | | | | **Attribute/data item ID: 4** | | |
| **Cross Reference name/ID** | | | **Cross Reference Type** | | | |
| Obat masuk | | | Entity Description | | | |
| **Synonim(s)** | | | | | | |
| **Description** | | | | | | |
| Tgl\_masuk digunakan untuk menampung atau merekam tanggal atau waktu ketika suatu obat masuk ke dalam stok atau inventaris dalam sistem manajemen obat. | | | | | | |
| **Validation/derivation** | | | | | | |
| **Mandatory** | **√** | **Default Value** | **Optional** | |  | **Value for Null** |
| **Logical Format:** XXXXXXXX | | | **Unit of measure :** Year | | | |
| **Logical length :** 6 | | | **Length Description:** fixed | | | |

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| **Attribute/Data Item Description** | |
| **Attribute/data item name:**  Id\_laporan | **Attribute/data item ID: 5** |

|  |  |  |  |  |  |
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| **Cross Reference name/ID** | | | **Cross Reference Type** | | |
| Laporan Obat masuk | | | Entity Description | | |
| **Synonim(s)** | | | | | |
| **Description** | | | | | |
| Id\_laporan digunakan untuk menampung atau merekam kode atau identifikasi unik yang mengidentifikasi suatu laporan atau dokumen tertentu dalam sistem. | | | | | |
| **Validation/derivation** | | | | | |
| **Mandatory** | **√** | **Default Value** | **Optional** |  | **Value for Null** |
| **Logical Format:** XXXXXXXX | | | **Unit of measure :** Int | | |
| **Logical length :** 8 | | | **Length Description:** fixed | | |

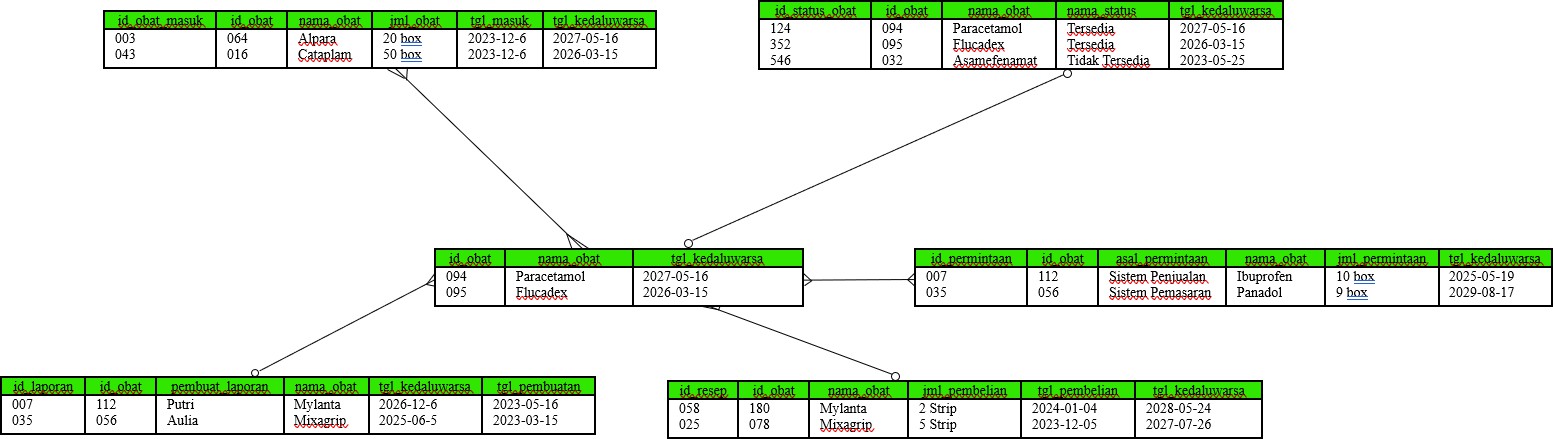
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Attribute/Data Item Description** | | | | | | |
| **Attribute/data item name:**  pembuat\_laporan | | | | **Attribute/data item ID: 5** | | |
| **Cross Reference name/ID** | | | **Cross Reference Type** | | | |
| Laporan Obat masuk | | | Entity Description | | | |
| **Synonim(s)** | | | | | | |
| **Description** | | | | | | |
| pembuat\_laporan digunakan untuk menampung atau merekam informasi tentang orang atau  entitas yang bertanggung jawab atas pembuatan atau penulisan laporan tertentu dalam sistem. | | | | | | |
| **Validation/derivation** | | | | | | |
| **Mandatory** | **√** | **Default Value** | **Optional** | |  | **Value for Null** |
| **Logical Format:** XXXXXXXX | | | **Unit of measure :** String | | | |
| **Logical length : 50** | | | **Length Description:** fixed | | | |

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| --- | --- | --- |
| **Attribute/Data Item Description** | | |
| **Attribute/data item name:**  Tgl\_pembuatan | | **Attribute/data item ID: 5** |
| **Cross Reference name/ID** | **Cross Reference Type** | |
| Laporan Obat masuk | Entity Description | |
| **Synonim(s)** | | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Tgl\_pembuatan digunakan untuk menampung atau merekam tanggal atau waktu pembuatan atau penyusunan suatu laporan atau dokumen dalam sistem. | | | | | | | **Validation/derivation** | | | | | | | **Mandatory** | **√** | **Default Value** | **Optional** |  | **Value for Null** | | **Logical Format:** XXXXXXXX | | | **Unit of measure :** Int | | | | **Logical length :** 8 | | | **Length Description:** fixed | | |   **Description** | | |

1. Required Data Model Enhanced :

* Normalisasi

|  |  |  |  |
| --- | --- | --- | --- |
| **UNF** | **1NF** | **2NF** | **3NF** |
| id\_obat  nama\_obat  tgl\_kedaluwarsa id\_status\_obat  nama\_status  id\_obat\_masuk jml\_obat  tgl\_masuk id\_laporan  pembuat\_laporan tgl\_pembuatan id\_resep  tgl\_pembelian jml\_pembelian Id\_permintaan asal\_permintaan jml\_permintaan | id\_obat  nama\_obat  tgl\_kedaluwarsa id\_status\_obat  nama\_status id\_obat  nama\_obat  tgl\_kedaluwarsa id\_obat\_masuk jml\_obat  tgl\_masuk id\_obat  nama\_obat  tgl\_kedaluwarsa id\_laporan  pembuat\_laporan tgl\_pembuatan id\_resep  tgl\_pembelian jml\_pembelian nama\_obat  id\_permintaan id\_obat  asal\_permintaan  jml\_permintaan | **id\_obat**  nama\_obat  tgl\_kedaluwarsa  **id\_status\_obat**  nama\_status  **id\_obat\_masuk**  jml\_obat tgl\_masuk  **id\_laporan**  pembuat\_laporan tgl\_pembuatan  **id\_resep**  tgl\_pembelian jml\_pembelian  **Id\_permintaan** asal\_permintaan jml\_permintaan | **id\_obat**  nama\_obat  tgl\_kedaluwarsa  **id\_status\_obat**  *id\_obat*  nama\_status  **id\_obat\_masuk** *id\_obat* jml\_obat  tgl\_masuk  **id\_laporan**  *id\_obat*  pembuat\_laporan tgl\_pembuatan  **id\_resep**  *id\_obat*  tgl\_pembelian jml\_pembelian  **id\_permintaan**  *id\_obat*  asal\_permintaan jml\_permintaan |

* Data Structure Diagram
* Model Relationship

