Normalization

# User\_role Table:

1NF:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User\_name | User\_first\_name | User\_last\_name | User\_password | Role\_name | Role\_description |

Primary key: user\_name, role\_name

FDs:

User\_name, Role\_name-> User\_first\_name, User\_last\_name, User\_password, Role\_description

User\_name-> User\_first\_name, User\_last\_name, User\_password

Role\_name->Role\_description

2NF:

|  |  |  |  |
| --- | --- | --- | --- |
| User\_name | User\_first\_name | User\_last\_name | User\_password |

|  |  |
| --- | --- |
| Role\_name | Role\_description |

|  |  |
| --- | --- |
| User\_name | Role\_name |

# Order Details Table:

2NF:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Order\_id | Order\_alter\_num | Order\_amnt | Order\_contact | Order\_addr | Order\_status | Product\_id | User\_name | Product\_actual\_price | Product\_desc | Product\_disc\_price | Product\_name |

Primary key: order\_id

FDs:

Order\_id-> Order\_alter\_num, Order\_amnt, Order\_contact, Order\_addr, Order\_status

Product\_id-> Product\_actual\_price, Product\_desc, Product\_disc\_price, Product\_name

Order\_id, Product\_id-> Order\_alter\_num, Order\_amnt, Order\_contact, Order\_addr, Order\_status, Product\_actual\_price, Product\_desc, Product\_disc\_price, Product\_name, user\_name

3NF:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Order\_id | Order\_alter\_num | Order\_amnt | Order\_contact | Order\_addr | Order\_status | Product\_id | User\_name |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Product\_id | Product\_actual\_price | Product\_desc | Product\_disc\_price | Product\_name |

# Image\_Product Table:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Product\_id | Product\_actual\_price | Product\_desc | Product\_disc\_price | Product\_name | Image\_id | Image\_name | Pic\_byte | type |
| 1 | 120 | Medicine 200mg | 100 | panadol | 1 2 3 | P1.png P2.png P3.png | Blob blob blob | Png png png |

1NF:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Product\_id | Product\_actual\_price | Product\_desc | Product\_disc\_price | Product\_name | Image\_id | Image\_name | Pic\_byte | type |
| 1 1 1 | 120 120 120 | Medicine 200mg Medicine 200mg Medicine 200mg | 100 100 100 | panadol Panadol panadol | 1 2 3 | P1.png P2.png P3.png | Blob blob blob | Png png png |

Primary key: product\_id, image\_id

FDs:

Product\_id->Product\_actual\_price, Product\_desc, Product\_disc\_price, Product\_name

Image\_id-> image\_name, pic\_byte, type

Product\_id, Image\_id-> Product\_actual\_price, Product\_desc, Product\_disc\_price, Product\_name, -> image\_name, pic\_byte, type

2NF:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Product\_id | Product\_actual\_price | Product\_desc | Product\_disc\_price | Product\_name |

|  |  |  |  |
| --- | --- | --- | --- |
| Image\_id | Image\_name | Pic\_byte | type |

|  |  |
| --- | --- |
| Product\_id | Image\_id |