**Relational database table for orders**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Order ID** | **Product ID** | **Product Name** | **Customer ID** | **First name** | **Last name** | **Quantity** | **Unit cost** | **Total** | **Date of order** |
| 456 | 23344 | Eye Shadow | 101 | Isla | Brown | 20 | $40.00 | $800 | 22 -04 -21 |
| 243 | 24555 | Eyeshadow | 112 | Maria | Wilson | 40 | $20.00 | $800 | 24 -09 -21 |
| 676 | 21345 | Face cream | 111 | Jasmine | Sindhu | 10 | $100.00 | $1000 | 10 -09-21 |
| 878 | 64677 | Skin care cream | 221 | Maria | Jones | 100 | $60.00 | $6000 | 30- -09 -21 |

Normalization of the order relational database table

**1NF**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Quantity ordered** | | | | |
| **Order ID** | **Product ID** | **Quantity** | **Unit cost** | **Total** |
| 456 | 23344 | 20 | $40.00 | $800 |
| 243 | 24555 | 40 | $20.00 | $800 |
| 676 | 21345 | 10 | $100.00 | $1000 |
| 878 | 64677 | 100 | $60.00 | $6000 |

|  |  |
| --- | --- |
| **Name of the product** | |
| **Product id** | **Product name** |
| 23344 | Eye Shadow |
| 24555 | Eyeshadow |
| 21345 | Face cream |
| 64677 | Skin care cream |

|  |  |  |  |
| --- | --- | --- | --- |
| **Date of order for the product** | | | |
| **Customer id** | **First name** | **Last name** | **Date of order** |
| 101 | Isla | Brown | 22 -04 -21 |
| 112 | Maria | Wilson | 24 -09 -21 |
| 111 | Jasmine | Sindhu | 10 -09-21 |
| 221 | Maria | Jones | 30- -09 -21 |

**2NF**

|  |  |
| --- | --- |
| **Name of the product** | |
| **Product id** | **Product name** |
| 23344 | Eye Shadow |
| 24555 | Eyeshadow |
| 21345 | Face cream |
| 64677 | Skin care cream |

|  |  |  |
| --- | --- | --- |
| Product Ordered date | | |
| **Customer id** | **Product name** | **Date of order** |
| 101 | Eye Shadow | 22 -04 -21 |
| 112 | Eyeshadow | 24 -09 -21 |
| 111 | Face cream | 10 -09-21 |
| 221 | Skin care cream | 30- -09 -21 |

**3NF**

|  |  |
| --- | --- |
| **Order date** | |
| **Product name** | **Date of order** |
| Eye Shadow | 22 -04 -21 |
| Eyeshadow | 24 -09 -21 |
| Face cream | 10 -09-21 |
| Skin care cream | 30- -09 -21 |