


ONLINE SHOP MANAGEMENT SYSTEM

Normalization

 → Foreign Key

 → Primary Key

Sells (dlr_id, d_location, d_name, d_email, p_id, p_name, p_price, p_size, p_color)

1NF: d_email is a multivalued attribute

2NF: dlr_id, d_name, d_location, d_email

p_id, p_name, p_color, p_size, p_price

3NF: dlr_id, d_name, d_location, d_email

p_sizeid, p_size, p_price, p_color

p_id, p_name

Table for Sells:

1. dlr_id, d_name, d_location
2. p_sizeid, p_size, p_price, p_color
3. p_id, p_name, p_sizeid, dlr_id
4. dlr_id, d_email – composite primary key

Gets acquired by (p_id, p_size, p_name, p_color, p_price, s_name, s_tradeNum, s_phone, starting_date)

1NF: s_phone is a multivalued attribute

2NF: p_id, p_name, p_size, p_color, p_price

s_tradeNum, s_name, s_phone, starting_date

3NF: p_id, p_name

p_sizeid, p_size, p_price, p_color

s_tradeNum, s_name, s_phone, starting_date

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Table for gets acquired by:

1. **p_id**, p_name, p_price, **s_tradeNum**, **p_sizeid**
2. **p_sizeid**, p_price, p_size, p_color
3. **s_tradeNum**, s_name, starting_date
4. **s_tradeNum**, s_phone-composite primary key

Supplies to (s_tradeNum, s_name, s_phone, starting_date, p_price, dm_id, transp_num, dm_name)

1NF: s_phone is a multivalued attribute

2NF: s_tradeNum, s_name, s_phone, p_price, starting_date

dm_id, dm_name, transp_num

3NF: No transitive dependency

s_tradeNum, s_name, s_phone, p_price, starting_date

dm_id, dm_name, transp_num

Table for Supplies to:

1. **s_tradeNum**, s_name, p_price, starting_date
2. **dm_id**, dm_name, transp_num, **s_tradeNum**
3. **s_tradeNum**, s_phone- composite primary key

Delivers to (dm_id, transp_num, dm_name, c_nid, cu_address, acc_type, c_name)

1NF: No multivalued Attribute

2NF: **dm_id**, dm_name, transp_num

c_nid, cu_address, acc_type, c_name

3NF: No transitive dependency

dm_id, dm_name, transp_num

c_nid, cu_address, acc_type, c_name

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Table for delivers to:

1. **dm_id**, dm_name, transp_num
2. **c_nid**, cu_address, acc_type, c_name
3. **t_id**, **dm_id**, **c_nid**

Final Table List

1. **dlr_id**, d_name, d_location – **Dealer**
2. **p_id**, p_name, **p_sizeid**, **dlr_id** - **Product**
3. **p_sizeid**, p_size, p_price, p_color – **ProductInfo**
4. **dlr_id**, d_email – **Dealer1**
5. **p_id**, p_name, p_price, **s_tradeNum**, **p_sizeid** – **Product1**
6. **s_tradeNum**, s_name, p_price, starting_date - **Seller**
7. **s_tradeNum**, s_phone – **Seller1**
8. **dm_id**, dm_name, transp_num, **s_tradeNum** – **DeliveryMan**
9. **c_nid**, cu_address, acc_type, c_name - **Customer**
10. **t_id**, **dm_id**, **c_nid** - **TrackDelivery**