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Assignment: Relational Model

For each relation provided in Excel files, identify:

1. **Primary key**
2. **Attributes**
3. **Foreign key(s)**
4. **Degree of the relation**
5. **Cardinality of the relation**

Category:

1. **Primary key ---------- > cat_id**
2. **Attributes ---------- > cat_id, cat_desc**
3. **Foreign key(s) ---------- > N/A**
4. **Degree of the relation ---------- > 2**
5. **Cardinality of the relation ------ > 4**

Color:

1. **Primary key ---------- > color**
2. **Attributes ---------- > color**
3. **Foreign key(s) ---------- > N/A**
4. **Degree of the relation ---------- > 1**
5. **Cardinality of the relation ------ > 12**

Customer:

1. **Primary key ---------- > c_id**
2. **Attributes ---------- > c_id, c_last, c_first, c_mi, c_birthdate, c_address, c_city, c_state, c_zip, c_dphone, c_ephone, c_userid, c_password**
3. **Foreign key(s) ---------- > N/A**
4. **Degree of the relation ---------- > 13**
5. **Cardinality of the relation ------ > 6**

Inventory:

1. **Primary key ---------- > inv_id**
2. **Attributes ---------- > inv_id, item_id, color, inv_size, inv_price, inv_qoh**
3. **Foreign key(s) ---------- > color, item_id**
4. **Degree of the relation ---------- > 6**
5. **Cardinality of the relation ------ > 32**

Item:

1. **Primary key ---------- > item_id**
2. **Attributes ---------- > item_id, item_desc, cat_id, item_image**
3. **Foreign key(s) ---------- > cat_id**
4. **Degree of the relation ---------- > 4**
5. **Cardinality of the relation ------ > 7**

Order_line:

1. **Primary key ---------- > o_id, inv_id**
2. **Attributes ---------- > o_id, inv_id, ol_quantity**
3. **Foreign key(s) ---------- > o_id, inv_id**
4. **Degree of the relation ---------- > 3**
5. **Cardinality of the relation ------ > 10**

Order_Source:

6. **Primary key ---------- > os_id**
7. **Attributes ---------- > os_id, os_desc**
8. **Foreign key(s) ---------- > N/A**
9. **Degree of the relation ---------- > 2**
10. **Cardinality of the relation ------ > 6**

Orders:

6. **Primary key ---------- > o_id**
7. **Attributes ---------- > o_id, o_date, o_methpmt, c_id, os_id**
8. **Foreign key(s) ---------- > c_id, os_id**
9. **Degree of the relation ---------- > 5**

10. **Cardinality of the relation ------ > 6**

Shipment:

11. **Primary key ---------- > ship_id**
12. **Attributes ---------- > ship_id, ship_date_expected**
13. **Foreign key(s) ---------- > N/A**
14. **Degree of the relation ---------- > 2**
15. **Cardinality of the relation ------ > 5**

Shipment_Line:

16. **Primary key ---------- > ship_id, inv_id**
17. **Attributes ---------- > ship_id, inv_id, sl_quantity, sl_date_recieved**
18. **Foreign key(s) ---------- > ship_id, inv_id**
19. **Degree of the relation ---------- > 4**
20. **Cardinality of the relation ------ > 11**