Put in table format

<table>
<thead>
<tr>
<th>Item No</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>93</td>
<td>Pencils</td>
<td>200</td>
<td>0.05</td>
<td>10.00</td>
</tr>
<tr>
<td>10</td>
<td>Big Fountain Pen</td>
<td>300</td>
<td>0.10</td>
<td>30.00</td>
</tr>
<tr>
<td>78</td>
<td>Accodata disket holder</td>
<td>10</td>
<td>35.00</td>
<td>350.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>390.00</td>
</tr>
</tbody>
</table>

Identify the primary key

Order (order-no, date, client no, address, tel no, (item-no, description, quantity, unit price, total) order-total)

What about client no, item no???

What is the problem with the current table?

Problem

Order (order-no, date, client no, address, tel no, (item-no, description, quantity, unit price, total) order-total)

How many of these should we cater for?

Other solution!!!

Solution

Order (order-no, date, client no, address, tel no, order-total)

Order-item (order-no, item-no, description, quantity, unit price, total)
Order-Item
Order-item (order-no, item-no, description, quantity, unit price, total)

<table>
<thead>
<tr>
<th>Order-No</th>
<th>Item-No</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>981243</td>
<td>05</td>
<td>Pencils</td>
<td>200</td>
<td>0.05</td>
<td>10.00</td>
</tr>
<tr>
<td>981243</td>
<td>10</td>
<td>Big Fountain Pen</td>
<td>100</td>
<td>0.10</td>
<td>10.00</td>
</tr>
<tr>
<td>981245</td>
<td>78</td>
<td>Accutrend disket holder</td>
<td>10</td>
<td>0.50</td>
<td>5.00</td>
</tr>
<tr>
<td>981244</td>
<td>94</td>
<td>Pencils 11</td>
<td>10</td>
<td>0.07</td>
<td>0.70</td>
</tr>
<tr>
<td>981240</td>
<td>11</td>
<td>….</td>
<td>….</td>
<td>….</td>
<td>….</td>
</tr>
</tbody>
</table>

Problem
Order (order-no, date, client no, address, tel no, order-total)
Order-item (order-no, item-no, description, quantity, unit price, total)
- Why is this a problem?
- Do we have separate data for client and item?
- If not what will happen if we delete the last order of a client?
- What happen if the clients tel no change?
- Same for item

Solution
Order (order-no, date, client no, order-total)
Client(client no, address, tel no)
Order-item (order-no, item-no, quantity, unit price, total)
Item (item-no, description, unit price)
- Business rule: Because of fluctuations in price, the order will always show the unit price at the time the order is placed!!

Problems???
Order (order-no, date, client no, order-total)
Client(client no, address, tel no)
Order-item (order-no, item-no, quantity, unit price, total)
Item (item-no, description, unit price)
- Why is this a problem?

Solution
Order (order-no, date, client no, order-total)
Client(client no, address, tel no)
Order-item (order-no, item-no, quantity, unit price, total)
Item (item-no, description, unit price)
Delete the attribute