Assignment 3a - Extraction

Query 1

Shows Data of a worker and its warehouse, the worker works in.

Ouerv 2

Shows Data about each warehouse. It specifically shows which printers are inside of each warehouse and shows also data about the printers. Additionally, we get all plans a printer is associated with.

Query 3

For every artist we get the plans he/she is associated with and, we get for each of these plans the one worker, who is responsible for this plan.

Query 3

This query shows specific info about a worker. We see all the shopping items the worker created (that he/she wants to buy) and all the plans the worker is responsible for.

For every query we limit the output to 100, so that we don't get to much data back and also the queries are faster. If all data is needed, the (limit 100) clause needs to be removed from each query.

SQL

```
select w.svnr, w.entry date, w.unique feature, w.first name, w.last name, w.nickname, ware.warehouse id, ware.
warehouse_name, p.printer_id, p.printer_info, p.extruder_type, p.price
         inner join warehouse ware on w.warehouse_id=ware.warehouse_id
         left join printer p on ware.warehouse_id = p.warehouse_id
    order by w.svnr, p.printer_id limit 100;
SQLXML
select xmlelement(name root, (
    select xmlagg(xml) from (
        select xmlelement(name worker, xmlattributes(svnr as svnr, entry_date as entrydate, unique_feature),
xmlforest(first_name as firstname,last_name as lastname, nickname),
             xmlelement(name warehouse zugeordnet, xmlattributes(ware.warehouse_id as warehouse_id), xmlelement(name warehousename, ware.warehouse_name),
                 xmlelement (name printers, (
                     select xmlagg(
                        xmlforest(extruder_type, price)
                     ) from printer where printer.warehouse_id = ware.warehouse_id )
        ) as xml from worker w inner join warehouse ware on w.warehouse id=ware.warehouse id order by w.svnr limit 100
));
            <worker svnr="1001201187" entrydate="2017-04-02" unique_feature="moody">
             <firstname>Christopher</firstname>
              <lastname>Washington
              <nickname> Piano Red</nickname>
              <warehouse_zugeordnet warehouse_id="15">
               <warehousename>The cyan carefree warehouse</warehousename>
               cprinters>
                  <printer printer_id="191">
                   <printer_info>
                     <name>TVS Electronics open-minded 23</name>
                     <weight>20</weight>
                     <measurements>
                       <print width>69</print width>
                       <print_depth>106</print_depth>
                       <print_height>13</print_height>
                     </measurements>
                   </printer_info>
                    <extruder_type>Hotend</extruder_type>
                   <price>4080</price>
                  </printer>
                  <printer printer_id="200">
                    <printer_info>
                     <name>Compuprint nuts 24</name>
                     <weight>60</weight>
                     <measurements>
                       <print_width>84</print_width>
                       <pri>depth>77</print_depth>
                       <print_height>38</print_height>
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                   <extruder type>Direct</extruder type>
                   <price>3160</price>
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                    <printer_info>
                     <name>Digital Equipment Corporation generous 43</name>
                     <weight>40</weight>
                     <measurements>
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                       <print_height>12</print_height>
```

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   <name>Fujitsu brave 16</name>
   <weight>100</weight>
   <measurements>
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   </measurements>
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 <price>1080</price>
</printer>
<printer printer_id="447">
  <printer_info>
   <name>Canon conventional 39</name>
   <weight>60</weight>
   <measurements>
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     <print_depth>103</print_depth>
     <print_height>15</print_height>
   </measurements>
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 <price>5960</price>
</printer>
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 <printer_info>
   <name>Comtec sensitive 37</name>
   <weight>60</weight>
   <measurements>
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     <print_depth>18</print_depth>
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 </printer_info>
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 <price>4980</price>
</printer>
<printer printer_id="600">
 <printer info>
   <name>TVS Electronics lazy 26</name>
   <weight>80</weight>
   <measurements>
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     <print_depth>102</print_depth>
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   </measurements>
 </printer info>
 <extruder_type>Hotend</extruder_type>
 <price>710</price>
</printer>
<printer printer_id="652">
 <printer_info>
   <name>Fujitsu carefree 7</name>
   <weight>40</weight>
   <measurements>
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<print_width>100</print_width>
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       <extruder_type>Bowden</extruder_type>
       <price>280</price>
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      <printer printer_id="886">
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          <weight>100</weight>
          <measurements>
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           <print_height>12</print_height>
          </measurements>
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       <price>2410</price>
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   </printers>
  </warehouse_zugeordnet>
</worker>
<worker svnr="1001221180" entrydate="2015-10-17" unique_feature="very cruel">
  <firstname>Nicholas/firstname>
  <lastname>Gamble</lastname>
 <nickname> Blind Joe Reynolds</nickname>
  <warehouse_zugeordnet warehouse_id="91">
   <warehousename>The purple brave warehouse</warehousename>
      <printer printer_id="1">
        <printer_info>
          <name>Bell-Mark boring 7</name>
          <weight>50</weight>
          <measurements>
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            <print_height>40</print_height>
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       <price>2240</price>
      </printer>
      <pri>printer printer_id="46">
       <printer_info>
          <name>Kodak cruel 20</name>
          <weight>40</weight>
          <measurements>
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           <print_depth>28</print_depth>
            <pri><print_height>12</print_height>
          </measurements>
        </printer_info>
       <extruder_type>Hotend</extruder_type>
       <price>1040</price>
      </printer>
      <printer printer_id="97">
        <printer_info>
          <name>Printer System Corporation quarrelsome 1</name>
          <weight>30</weight>
          <measurements>
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           <print_depth>94</print_depth>
            <pri>print_height>39</print_height>
          </measurements>
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       <extruder_type>Hotend</extruder_type>
       <price>980</price>
      </printer>
      <pri>printer printer_id="142">
        <printer_info>
          <name>Ricoh kind 25</name>
          <weight>40</weight>
          <measurements>
```

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</printer>
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   <weight>20</weight>
   <measurements>
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     <print_height>49</print_height>
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 <price>1630</price>
</printer>
<printer printer_id="301">
 <printer_info>
   <name>Fujifilm nuts 25</name>
   <weight>50</weight>
   <measurements>
      <pri><print_width>66</print_width>
     <print_depth>30</print_depth>
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 <extruder_type>Direct</extruder_type>
 <price>4450</price>
</printer>
<printer printer_id="553">
 <printer_info>
   <name>Compress UV Printers weird 6</name>
   <weight>90</weight>
   <measurements>
     <print_width>84</print_width>
     <print_depth>74</print_depth>
      <pri><print_height>14</print_height>
   </measurements>
 </printer_info>
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 <price>1710</price>
</printer>
<printer printer_id="554">
 <printer_info>
   <name>Toshiba cautious 47</name>
   <weight>40</weight>
   <measurements>
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     <print_depth>112</print_depth>
     <print_height>14</print_height>
   </measurements>
 </printer_info>
 <extruder_type>Hotend</extruder_type>
 <price>1820</price>
</printer>
<pri>printer printer_id="680">
 <printer_info>
   <name>ASK Technology crazy 39</name>
   <weight>60</weight>
   <measurements>
      <print_width>94</print_width>
     <print_depth>37</print_depth>
     <print_height>22</print_height>
   </measurements>
 </printer_info>
 <extruder_type>Direct</extruder_type>
 <price>370</price>
</printer>
<pri>printer printer_id="737">
 <printer_info>
```

```
<name>Sharp cruel 33</name>
          <weight>90</weight>
          <measurements>
            <print_width>80</print_width>
           <print_depth>104</print_depth>
            <print_height>26</print_height>
          </measurements>
       </printer_info>
       <extruder_type>Hotend</extruder_type>
       <price>590</price>
      </printer>
      <printer printer_id="742">
       <printer_info>
          <name>Ricoh cowardly 26</name>
          <weight>100</weight>
          <measurements>
           <pri><print_width>24</print_width>
           <pri>depth>10</print_depth>
            cyrint_height>31</print_height>
          </measurements>
       </printer_info>
       <extruder_type>Direct</extruder_type>
       <price>5960</price>
      </printer>
      <printer printer_id="753">
        <printer_info>
          <name>GENICOM shy - introverted 2</name>
          <weight>50</weight>
          <measurements>
           <pri><print_width>26</print_width>
            <pri><print_depth>46</print_depth>
           <print_height>41</print_height>
          </measurements>
       </printer_info>
       <extruder_type>Bowden</extruder_type>
       <price>4440</price>
      </printer>
      <pri>printer printer_id="977">
        <printer_info>
         <name>Kyocera Mita quarrelsome 39</name>
          <weight>80</weight>
          <measurements>
            <pri>print_width>108</print_width>
           <print_depth>92</print_depth>
           <pri><print_height>36</print_height>
          </measurements>
       </printer_info>
       <extruder_type>Direct</extruder_type>
       <price>3560</price>
      </printer>
   </printers>
 </warehouse_zugeordnet>
</worker>
```

</root>

SQL

```
select ware.warehouse_id, ware.warehouse_name, p.printer_id, p.printer_info, p.extruder_type, p.price
    from warehouse ware
        left join printer p on ware.warehouse_id = p.warehouse_id
        left join plan on p.printer_id = plan.printer_id and printer_warehouse_id = p.warehouse_id
    where ware.warehouse_id<100
    order by ware.warehouse id;</pre>
```

4	warehouse_id integer	warehouse_name character varying	printer_id integer	printer_info xml	extruder_type character varying	price double pred	plan_id integer	status character varying	priority character va	endproduct_name character varying	basic_instruction character varying
1	1	The green kind ware	9	<pre><printer_info></printer_info></pre>	Direct	3400	489	cancelled	very low	The blue nasty Spoon	Create a Spoon
2	1	The green kind ware	263	<pre><printer_info></printer_info></pre>	Direct	1270	279	finished	low	The olive wise Hoover	Create a Hoover
3	1	The green kind ware	280	<pre><printer_info></printer_info></pre>	Direct	3170	[null]	[null]	[null]	[null]	[null]
4	1	The green kind ware	512	<pre><printer_info></printer_info></pre>	Hotend	2730	[null]	[null]	[null]	[null]	[null]
5	1	The green kind ware	552	<pre><printer_info></printer_info></pre>	Direct	3230	[null]	[null]	[null]	[null]	[null]
6	1	The green kind ware	584	<pre><printer_info></printer_info></pre>	Direct	2730	9	working	very low	The red emergency Clock	I would like you to d
7	1	The green kind ware	715	<pre><printer_info></printer_info></pre>	Bowden	2350	224	working	high	The teal formal Helmet	Create a Helmet
8	1	The green kind ware	715	<pre><printer_info></printer_info></pre>	Bowden	2350	443	prepared	medium	The pink what Latex Book	Please design me a L
9	1	The green kind ware	856	<pre><printer_info></printer_info></pre>	Hotend	5610	154	prepared	low	The green last Toaster	Create a Toaster
10	2	The blue selfish war	320	<pre><printer_info></printer_info></pre>	Hotend	5540	[null]	[null]	[null]	[null]	[null]
11	2	The blue selfish war	350	<pre><printer_info></printer_info></pre>	Bowden	4360	533	ready to prepare	high	The maroon unable Sma	Make a Smartphone
12	2	The blue selfish war	350	<pre><printer_info></printer_info></pre>	Bowden	4360	668	prepared	very low	The teal emergency Dog	Please design me a
13	2	The blue selfish war	350	<pre><printer_info></printer_info></pre>	Bowden	4360	914	cancelled	low	The olive plastic Hoover	Create a Hoover
14	2	The blue selfish war	476	<pre><printer_info></printer_info></pre>	Bowden	3130	557	finished	high	The indigo independent	I would like you to d
15	2	The blue selfish war	476	<pre><printer_info></printer_info></pre>	Bowden	3130	938	almost finished	high	The green female Comp	Please design me a
16	2	The blue selfish war	492	<pre><printer_info></printer_info></pre>	Bowden	3010	22	prepared	low	The olive positive Latex	Create a Latex Book
17	2	The blue selfish war	504	<pre><printer_info></printer_info></pre>	Hotend	4730	965	prepared	very low	The navy confident Clock	Please design me a
18	2	The blue selfish war	523	<pre><printer_info></printer_info></pre>	Hotend	5240	171	prepared	very low	The green kind Cable	I would like you to d
19	2	The blue selfish war	523	<pre><printer_info></printer_info></pre>	Hotend	5240	245	prepared	very high	The brown dead Monitor	Make a Monitor

XMLSQL

```
select xmlelement (name root, (
    select xmlagg(xml) from (
       select xmlelement (name warehouse, xmlattributes (ware.warehouse_id as warehouse_id, ware.country as country),
           xmlforest(ware.warehouse_name as warehousename, ware.gla, ware.vkfl),
           xmlelement (name printers, (
               select xmlagg(
                   xmlelement(name printer, xmlattributes(printer_id as printer_id),
                       printer_info,
                                      -the xml column
                       xmlforest(extruder_type as extruder_type, price),
                       xmlelement(name printed_plans, (
                           select xmlagg(
                              xmlelement(name plan, xmlattributes(plan_id as plan_id, status, priority),
    xmlforest(plan.endproduct_name, plan.basic_instruction)
                           ) from plan where plan.printer id = printer.printer id and plan.printer warehouse id =
                           printer.warehouse id
                       ))
               ) from printer where printer.warehouse id = ware.warehouse id)
       ) as xml from warehouse ware where ware.warehouse_id<100 order by ware.warehouse_id
));
<root>
  <warehouse warehouse id="1" country="Austria">
   <warehousename>The green kind warehouse</warehousename>
    <gla>3600</gla>
   <printers>
     <printer printer_id="9">
       <printer_info>
         <name>Compuprint conventional 44</name>
         <weight>30</weight>
         <measurements>
           <pri><print_width>52</print_width>
           <pri><print depth>49</print depth>
           <pri><print height>48</print height>
         </measurements>
       </printer_info>
       <extruder_type>Direct</extruder_type>
       <price>3400</price>
       <printed_plans>
```

```
<plan plan_id="489" status="cancelled" priority="very low">
    <endproduct_name>The blue nasty Spoon</endproduct_name>
    <basic instruction>Create a Spoon</basic instruction>
   </plan>
 </printed_plans>
</printer>
<printer printer id="263">
 <printer info>
   <name>Versatec self-confident 30</name>
   <weight>100</weight>
   <measurements>
    <print width>28</print width>
    <pri><print_depth>62</print_depth>
    <print_height>41</print_height>
   </measurements>
 </printer info>
 <extruder type>Direct</extruder type>
 <price>1270</price>
 <printed_plans>
   <plan plan id="279" status="finished" priority="low">
    <endproduct name>The olive wise Hoover</endproduct name>
    <basic instruction>Create a Hoover</basic instruction>
   </plan>
 </printed_plans>
</printer>
<printer printer id="280">
 <printer_info>
   <name>AMT Datasouth ambitious 50</name>
   <weight>40</weight>
   <measurements>
    <pri><print width>92</print width>
    <pri><print_depth>114</print_depth>
    <pri><print_height>30</print_height>
   </measurements>
 </printer info>
 <extruder_type>Direct</extruder_type>
 <price>3170</price>
 <printed_plans/>
</printer>
<printer printer id="512">
 <printer_info>
   <name>Heidelberg flirtatious 16</name>
   <weight>50</weight>
   <measurements>
    <pri><print width>66</print width>
    <pri><print_depth>110</print_depth>
    <pri><print_height>19</print_height>
   </measurements>
 </printer_info>
 <extruder_type>Hotend</extruder_type>
 <price>2730</price>
 <printed_plans/>
</printer>
<printer printer id="552">
```

```
<printer_info>
   <name>Kodak conservative 4</name>
   <weight>80</weight>
   <measurements>
    <print_width>29</print_width>
    <print_depth>112</print_depth>
    <pri><print height>45</print height>
   </measurements>
 </printer info>
 <extruder_type>Direct</extruder_type>
 <price>3230</price>
 <printed plans/>
</printer>
<printer printer_id="584">
 <printer_info>
   <name>Benson, Inc. shy - introverted 39</name>
   <weight>100</weight>
   <measurements>
    <pri><print_width>27</print_width>
    <pri><print depth>99</print depth>
    <pri><print height>24</print height>
   </measurements>
 </printer_info>
 <extruder_type>Direct</extruder_type>
 <price>2730</price>
 <printed plans>
   <plan plan_id="9" status="working" priority="very low">
    <endproduct_name>The red emergency Clock</endproduct_name>
    <br/><basic instruction>I would like you to do for me a STL file with Clock</basic instruction>
   </plan>
 </printed plans>
</printer>
<printer printer_id="715">
 <printer info>
   <name>UBIX Corp. hard-working 16</name>
   <weight>80</weight>
   <measurements>
    <pri><print_width>84</print_width>
    <pri><print depth>56</print depth>
    <pri><print_height>40</print_height>
   </measurements>
 </printer info>
 <extruder_type>Bowden</extruder_type>
 <price>2350</price>
 <printed plans>
   <plan plan_id="224" status="working" priority="high">
    <endproduct_name>The teal formal Helmet</endproduct_name>
    <basic_instruction>Create a Helmet</basic_instruction>
   </plan>
   <plan plan_id="443" status="prepared" priority="medium">
    <endproduct name>The pink what Latex Book</endproduct name>
    <basic instruction>Please design me a Latex Book</basic instruction>
   </plan>
 </printed plans>
```

```
</printer>
   <printer printer_id="856">
    <printer info>
     <name>Brother flirtatious 3</name>
      <weight>100</weight>
      <measurements>
       <pri><print width>35</print width>
       <pri>depth>70</print depth>
       <pri><print_height>20</print_height>
      </measurements>
    </printer info>
    <extruder type>Hotend</extruder type>
    <price>5610</price>
    <printed_plans>
      <plan plan_id="154" status="prepared" priority="low">
       <endproduct name>The green last Toaster</endproduct name>
       <basic_instruction>Create a Toaster</basic_instruction>
      </plan>
    </printed_plans>
   </printer>
 </printers>
</warehouse>
<warehouse warehouse_id="2" country="Austria">
 <warehousename>The blue selfish warehouse</warehousename>
 <gla>8300</gla>
 <printers>
   <printer printer_id="320">
    <printer_info>
      <name>Siemens Nixdorf flirtatious 48</name>
      <weight>60</weight>
      <measurements>
       <pri><print_width>72</print_width>
       <print_depth>15</print_depth>
       <pri><print_height>36</print_height>
      </measurements>
    </printer_info>
    <extruder_type>Hotend</extruder_type>
    <price>5540</price>
    <printed_plans/>
   </printer>
   <printer printer_id="350">
    <printer info>
      <name>Tektronix conceited 3</name>
      <weight>10</weight>
      <measurements>
       <pri><print_width>60</print_width>
       <pri><print_depth>119</print_depth>
       <pri><print_height>21</print_height>
      </measurements>
    </printer_info>
    <extruder_type>Bowden</extruder_type>
    <price>4360</price>
    <printed plans>
      <plan plan_id="533" status="ready to prepare" priority="high">
```

```
<endproduct_name>The maroon unable Smartphone</endproduct_name>
    <basic_instruction>Make a Smartphone</basic_instruction>
   </plan>
   <plan plan id="668" status="prepared" priority="very low">
    <endproduct_name>The teal emergency Dog</endproduct_name>
    <basic_instruction>Please design me a Dog</basic_instruction>
   </plan>
   <plan plan id="914" status="cancelled" priority="low">
    <endproduct name>The olive plastic Hoover</endproduct name>
    <basic_instruction>Create a Hoover</basic_instruction>
   </plan>
 </printed plans>
</printer>
<printer printer_id="476">
 <printer_info>
   <name>Océ shy - introverted 9</name>
   <weight>80</weight>
   <measurements>
    <pri><print_width>106</print_width>
    <print depth>96</print depth>
    <pri><print height>48</print height>
   </measurements>
 </printer_info>
 <extruder_type>Bowden</extruder_type>
 <price>3130</price>
 <printed plans>
   <plan plan_id="557" status="finished" priority="high">
    <endproduct_name>The indigo independent Wallet</endproduct_name>
    <br/><basic instruction>I would like you to do for me a STL file with Wallet</basic instruction>
   <plan plan id="938" status="almost finished" priority="high">
    <endproduct_name>The green female Computer</endproduct_name>
    <basic_instruction>Please design me a Computer/basic_instruction>
   </plan>
 </printed_plans>
</printer>
<printer printer_id="492">
 <printer_info>
   <name>InfoPrint open-minded 35</name>
   <weight>80</weight>
   <measurements>
    <print width>61</print width>
    <pri><print depth>81</print depth>
    <pri><print_height>31</print_height>
   </measurements>
 </printer_info>
 <extruder_type>Bowden</extruder_type>
 <price>3010</price>
 <printed_plans>
   <plan plan_id="22" status="prepared" priority="low">
    <endproduct name>The olive positive Latex Book</endproduct name>
    <basic instruction>Create a Latex Book</basic instruction>
   </plan>
 </printed plans>
```

```
</printer>
<printer printer_id="504">
 <printer info>
   <name>Nipson nuts 33</name>
   <weight>20</weight>
   <measurements>
    <pri><print width>60</print width>
    <pri><print depth>103</print depth>
    <pri><print_height>11</print_height>
   </measurements>
 </printer info>
 <extruder type>Hotend</extruder type>
 <price>4730</price>
 <printed_plans>
   <plan plan_id="965" status="prepared" priority="very low">
    <endproduct name>The navy confident Clock</endproduct name>
    <basic instruction>Please design me a Clock</basic instruction>
   </plan>
 </printed_plans>
</printer>
<printer printer_id="523">
 <printer info>
   <name>Nakajima dull 23</name>
   <weight>20</weight>
   <measurements>
    <pri><print width>14</print width>
    <pri><print_depth>97</print_depth>
    <pri><print_height>27</print_height>
   </measurements>
 </printer info>
 <extruder type>Hotend</extruder type>
 <price>5240</price>
 <printed plans>
   <plan plan_id="171" status="prepared" priority="very low">
    <endproduct name>The green kind Cable</endproduct name>
    <br/><basic_instruction>I would like you to do for me a STL file with Cable</basic_instruction>
   </plan>
   <plan plan_id="245" status="prepared" priority="very high">
    <endproduct name>The brown dead Monitor</endproduct name>
    <basic_instruction>Make a Monitor</basic_instruction>
   </plan>
   <plan plan id="757" status="working" priority="very high">
    <endproduct name>The green sharp Ultrasonic Sensors for Mbot</endproduct name>
    <basic instruction>Create a Ultrasonic Sensors for Mbot</basic instruction>
   </plan>
   <plan plan_id="880" status="working" priority="high">
    <endproduct_name>The lime budget Latex Book</endproduct_name>
    <br/><basic_instruction>I would like you to do for me a STL file with Latex Book</basic_instruction>
   </plan>
 </printed_plans>
</printer>
<printer printer id="607">
 <printer info>
   <name>Copal flirtatious 45</name>
```

```
<weight>80</weight>
             <measurements>
               <pri><print width>70</print width>
               <pri><print_depth>46</print_depth>
               <pri><print_height>37</print_height>
             </measurements>
            </printer info>
            <extruder type>Bowden</extruder type>
            <price>1660</price>
            <printed_plans>
             <plan plan_id="814" status="prepared" priority="medium">
               <endproduct name>The violet entire Printer</endproduct name>
               <basic_instruction>Please design me a Printer</basic_instruction>
             </plan>
            </printed_plans>
          </printer>
          <printer printer id="684">
            <printer_info>
             <name>Memorex Telex generous 9</name>
             <weight>90</weight>
             <measurements>
               <pri><print width>82</print width>
               <pri><print_depth>60</print_depth>
               <print_height>49</print_height>
             </measurements>
            </printer info>
            <extruder_type>Bowden</extruder_type>
            <price>1270</price>
            <printed_plans/>
          </printer>
          <printer printer id="987">
            <printer info>
             <name>TVS Electronics cantankerous 13</name>
             <weight>80</weight>
             <measurements>
               <pri><print_width>70</print_width>
               <pri><print_depth>34</print_depth>
               <pri><print_height>19</print_height>
             </measurements>
            </printer info>
            <extruder_type>Direct</extruder_type>
            <price>480</price>
            <printed plans>
             <plan plan_id="550" status="cancelled" priority="very high">
               <endproduct name>The red political Wallet</endproduct name>
               <basic_instruction>Make a Wallet</basic_instruction>
             </plan>
            </printed_plans>
          </printer>
         </printers>
</warehouse>
```

</root>

SQL

```
select a.artist_id, a.first_name, a.last_name, plan.plan_id, plan.endproduct_name, plan.basic_instruction, w.first_name
, w.last_name
    from artist a
        left join plan on a.artist_id = plan.artist_id
        left join worker w on plan.worker_svnr = w.svnr
where a.artist_id<100
    order by a.artist_id;</pre>
```

4	artist_id integer	first_name character varying	last_name character varying	plan_id integer	status character varying	priority character varying	endproduct_name character varying	basic_instruction character varying	svnr bigint	first_name character varying	last_name character varying
1	1	Jordan	Rhodes	356	almost finished	very low	The cyan terrible Box	Please design me a	01261178	Ann	Gates
2	2	Hannah	Leonard	[null]	[null]	[null]	[null]	[null]	[null]	[null]	[null]
3	3	Joan	King	[null]	[null]	[null]	[null]	[null]	[null]	[null]	[null]
4	4	Diane	Beard	301	cancelled	very low	The olive suspicious	I would like you to d	00261181	Judy	Dixon
5	4	Diane	Beard	908	ready to prepare	low	The lime strange US	Create a USB Stick	92261196	Margaret	Galloway
6	5	Natalie	Logan	355	prepared	very low	The cyan major Chips	Please design me a	78211183	Kathleen	Pickett
7	5	Natalie	Logan	844	prepared	high	The green more We	Create a Webcam	94181096	Ruth	Foreman
8	6	Kenneth	Shields	[null]	[null]	[null]	[null]	[null]	[null]	[null]	[null]
9	7	Olivia	Miles	415	working	very low	The cyan dry Hoover	Make a Hoover	92211189	Sharon	Huff
10	8	Frank	King	782	working	high	The olive over Bag	Make a Bag	03231182	Karen	Lindsey
11	9	Christina	Lawson	[null]	[null]	[null]	[null]	[null]	[null]	[null]	[null]
12	10	Carl	Shields	110	almost finished	very low	The orange emerge	Make a Box	25111192	Marilyn	Benjamin
13	10	Carl	Shields	378	prepared	low	The cyan thick Latex	Make a Latex Book	86151077	Shirley	Strickland
14	10	Carl	Shields	490	cancelled	high	The orange new Key	Create a Keyboard	11211273	Donna	Spencer
15	10	Carl	Shields	672	prepared	very low	The tan incident Wal	Please design me a	72191078	Samuel	Acosta
16	11	Elizabeth	Tyler	417	prepared	very low	The white leather US	Make a USB Stick	29131291	Barbara	Anthony
17	12	Jeremy	Walter	233	almost finished	very low	The silver good Clock	Create a Clock	62201098	Alexander	Melendez
18	12	Jeremy	Walter	619	cancelled	very low	The olive decent Sm	Please design me a S	76261095	Natalie	Mcmillan
19	12	Jeremy	Walter	705	prepared	low	The cyan economy C	I would like you to d	53271084	Joyce	Mcmillan

XMLSQL

```
select xmlelement (name root, (
   select xmlagg(xml) from (
       select xmlelement(name artist, xmlattributes(artist.artist_id as artist_id),
          xmlforest(artist.first_name, last_name),
          xmlelement (name plans, (
              select xmlagg(
                  xmlelement (name plan, xmlattributes (plan_id as plan_id, status, priority),
                      xmlforest(plan.endproduct_name, plan.basic_instruction),
                      (select xmlelement(name involved_worker, xmlattributes(svnr as svnr, entry_date as entrydate,
                     unique feature),
                         xmlforest(worker.first_name, worker.last_name)
                     ) from worker where worker.svnr = plan.worker_svnr
              ) from plan where plan.artist id = artist.artist id)
       ) as xml from artist where artist_id<100 order by artist.artist_id
   ) as tab
<root>
 <artist artist_id="1">
   <first name>Jordan</first name>
   <last_name>Rhodes</last_name>
   <plans>
     <plan plan_id="356" status="almost finished" priority="very low">
       <endproduct_name>The cyan terrible Box</endproduct_name>
       <br/>
<br/>
<br/>
dasic instruction>Please design me a Box</basic instruction>
       <involved_worker svnr="5501261178" entrydate="2013-08-18" unique_feature="self-confident">
        <first_name>Ann/first_name>
        <last_name>Gates
       </involved_worker>
     </plan>
   </plans>
 </artist>
 <artist artist_id="2">
   <first name>Hannah</first name>
   <last name>Leonard</last name>
   <plans/>
```

```
</artist>
<artist artist id="3">
 <first name>Joan</first name>
 <last_name>King</last_name>
 <plans/>
</artist>
<artist artist id="4">
 <first name>Diane</first name>
 <last name>Beard</last name>
 <plans>
   <plan plan_id="301" status="cancelled" priority="very low">
    <endproduct name>The olive suspicious Smartphone</endproduct name>
    <basic_instruction>I would like you to do for me a STL file with Smartphone</basic_instruction>
    <involved_worker svnr="1200261181" entrydate="2016-06-09" unique_feature="dull">
      <first_name>Judy</first_name>
      <last name>Dixon</last name>
    </involved worker>
   </plan>
   <plan plan_id="908" status="ready to prepare" priority="low">
    <endproduct name>The lime strange USB Stick</endproduct name>
    <basic instruction>Create a USB Stick</basic instruction>
    <involved worker svnr="6592261196" entrydate="2014-01-14" unique feature="cautious">
      <first_name>Margaret</first_name>
      <last_name>Galloway</last_name>
    </involved worker>
   </plan>
 </plans>
</artist>
<artist artist id="5">
 <first name>Natalie</first name>
 <last name>Logan</last name>
 <plans>
   <plan plan_id="355" status="prepared" priority="very low">
    <endproduct name>The cyan major Chips</endproduct name>
    <br/>
<br/>
<br/>
dasic instruction>Please design me a Chips</br>
<br/>
/basic instruction>
    <involved_worker svnr="7678211183" entrydate="2015-08-17" unique_feature="sensible">
      <first_name>Kathleen</first_name>
      <last name>Pickett</last name>
    </involved_worker>
   </plan>
   <plan plan id="844" status="prepared" priority="high">
    <endproduct name>The green more Webcam</endproduct name>
    <basic instruction>Create a Webcam</basic instruction>
    <involved worker svnr="8394181096" entrydate="2018-11-05" unique feature="moody">
      <first name>Ruth/first name>
      <last_name>Foreman</last_name>
    </involved_worker>
   </plan>
 </plans>
</artist>
<artist artist id="6">
 <first name>Kenneth</first name>
 <last name>Shields</last name>
 <plans/>
```

```
</artist>
<artist artist id="7">
 <first name>Olivia</first name>
 <last_name>Miles</last_name>
 <plans>
  <plan plan_id="415" status="working" priority="very low">
    <endproduct name>The cyan dry Hoover</endproduct name>
    <basic instruction>Make a Hoover/basic instruction>
    <involved worker svnr="4092211189" entrydate="2016-01-18" unique feature="trustworthy">
     <first_name>Sharon/first_name>
     <last name>Huff</last name>
    </involved worker>
  </plan>
 </plans>
</artist>
<artist artist id="8">
 <first name>Frank</first name>
 <last_name>King</last_name>
 <plans>
  <plan plan id="782" status="working" priority="high">
    <endproduct name>The olive over Bag</endproduct name>
    <basic instruction>Make a Bag</basic instruction>
    <involved_worker svnr="3503231182" entrydate="2014-10-02" unique_feature="selfish">
     <first_name>Karen/first_name>
     <last name>Lindsey</last name>
    </involved worker>
  </plan>
 </plans>
</artist>
<artist artist id="9">
 <first name>Christina</first name>
 <last_name>Lawson</last_name>
 <plans/>
</artist>
<artist artist id="10">
 <first_name>Carl</first_name>
 <last_name>Shields</last_name>
 <plans>
  <plan plan id="110" status="almost finished" priority="very low">
    <endproduct name>The orange emergency Box</endproduct name>
    <basic_instruction>Make a Box</basic_instruction>
    <involved worker svnr="4725111192" entrydate="2016-06-08" unique feature="ambitious">
     <first name>Marilyn</first name>
     <last name>Benjamin</last name>
    </involved worker>
  </plan>
  <plan plan_id="378" status="prepared" priority="low">
    <endproduct_name>The cyan thick Latex Book</endproduct_name>
    <basic instruction>Make a Latex Book</basic instruction>
    <involved_worker svnr="4686151077" entrydate="2016-07-24" unique_feature="sensible">
     <first name>Shirley</first name>
     <last name>Strickland</last name>
    </involved worker>
  </plan>
```

```
<plan plan_id="490" status="cancelled" priority="high">
    <endproduct_name>The orange new Keyboard</endproduct_name>
    <basic instruction>Create a Keyboard</basic instruction>
    <involved_worker svnr="8211211273" entrydate="2014-02-07" unique_feature="cheerful">
     <first_name>Donna/first_name>
     <last_name>Spencer</last_name>
    </involved worker>
  </plan>
  <plan plan id="672" status="prepared" priority="very low">
    <endproduct_name>The tan incident Wallet</endproduct_name>
    <basic_instruction>Please design me a Wallet</basic_instruction>
    <involved worker svnr="8872191078" entrydate="2015-07-13" unique feature="strict">
     <first_name>Samuel</first_name>
     <last_name>Acosta</last_name>
    </involved_worker>
  </plan>
 </plans>
</artist>
<artist artist_id="11">
 <first name>Elizabeth</first name>
 <last name>Tyler</last name>
 <plans>
  <plan plan_id="417" status="prepared" priority="very low">
    <endproduct_name>The white leather USB Stick</endproduct_name>
    <basic instruction>Make a USB Stick</basic instruction>
    <involved_worker svnr="3529131291" entrydate="2014-09-05" unique_feature="big-headed">
     <first_name>Barbara</first_name>
     <last_name>Anthony</last_name>
    </involved worker>
  </plan>
 </plans>
</artist>
<artist artist_id="12">
 <first name>Jeremy</first name>
 <last_name>Walter</last_name>
 <plans>
  <plan plan_id="233" status="almost finished" priority="very low">
    <endproduct_name>The silver good Clock</endproduct_name>
    <basic instruction>Create a Clock</basic instruction>
    <involved_worker svnr="3262201098" entrydate="2013-04-14" unique_feature="flirtatious">
     <first_name>Alexander</first_name>
     <last name>Melendez</last name>
    </involved worker>
  </plan>
  <plan plan id="619" status="cancelled" priority="very low">
    <endproduct_name>The olive decent Smartphone</endproduct_name>
    <basic_instruction>Please design me a Smartphone/basic_instruction>
    <involved_worker svnr="9776261095" entrydate="2016-05-03" unique_feature="polite">
     <first_name>Natalie</first_name>
     <last_name>Mcmillan</last_name>
    </involved worker>
  </plan>
  <plan plan id="705" status="prepared" priority="low">
    <endproduct_name>The cyan economy Clock</endproduct_name>
```

```
<basic_instruction>I would like you to do for me a STL file with Clock</basic_instruction>
      <involved_worker svnr="8153271084" entrydate="2017-11-02" unique_feature="very cruel">
       <first name>Joyce</first name>
       <last_name>Mcmillan</last_name>
      </involved_worker>
    </plan>
    <plan plan id="714" status="cancelled" priority="medium">
      <endproduct name>The red resident Chips</endproduct name>
      <basic_instruction>I would like you to do for me a STL file with Chips</basic_instruction>
      <involved_worker svnr="6290221080" entrydate="2015-11-08" unique_feature="kind">
       <first_name>Danielle</first_name>
       <last name>Keller</last name>
      </involved_worker>
    </plan>
  </plans>
 </artist>
</root>
```

SQL

```
select w.svnr, w.entry_date, w.unique_feature, w.first_name, w.last_name, w.nickname, plan.plan_id, plan.
endproduct_name, s.item_id, s.item_info, s.due_date, s.list_entry_date, s.is_finished
                 from worker w
                                 left join plan on w.svnr = plan.worker_svnr
                                  left join shopping_item s on s.worker_svnr = w.svnr
                 order by w.svnr limit 100;
      synr entry_date unique_feature first_name first_name nickname nickname plan_id status priority endproduct_name item_id is_finished item_info due_date litem_info due_date litem_info due_date character varying character varying character varying character varying integer character varying character varying integer character varying char
                                                                                                                                       Washington
Washington
                                                                                                                                                                                                                                                                                                                                                                                                       <item_info... 2019-06-01 2019-03-27</pre>

<item_info... 2019-07-17 2019-03-27</td>

                                                                                                                                      | Gamble | Blind Joe Reynolds | [mill] | Gamer | Cow Cov Devenport | [mill] | [mill] | [mill] | [mill] | [mill] | 250 | false
          1001221180 2015-10-17
                                                                                                  Nicholas
         1004121294 2016-05-14 ambitious Carolyn
                                                                                                                                                                                                                                                                                                                                                                                                       <tem_info... 2019-05-25 2019-03-27
           1016111279 2014-11-01

        Villarreal
        Blind Mississippi Mo...
        709
        ready to prepare
        low
        The tan ordinary Ho...
        959
        false

        Everett
        Lead Belly
        358
        working
        very low
        The magenta few Ult...
        399
        false

           1021191092 2018-05-10
                                                                                                                                                                                                                                                                                                                                                                                                         <tem_info... 2019-07-11 2019-03-27
                                                                                                                                                                                                                                                                                                                                                                                                       <te><item_info... 2019-05-09 2019-03-27</ti>
            1024101193 2018-02-13
                                                                                                                                                                                                                                                                                                                     The magenta few Ult...
                                                                                                                                                                                                                                                                                                                                                                      931 false
                                                                                                                                                                                                                                                                                                                                                                                                         <tem_info... 2019-05-19 2019-03-27
  11 1024101193 2018-02-13
                                                                                                                                                                                                                                                                                                                                                                      399 false
                                                                                                                                                                                                                                                                                                                                                                                                         <te>item_info... 2019-05-09 2019-03-27
                                                                                                                                                                                                                               393 working
  13 1024101193 2018-02-13
                                                                                                                                       Everett
                                                                                                                                                                              Lead Belly
                                                                                                                                                                                                                                                                                                                    The purple economy...
                                                                                                                                                                                                                                                                                                                                                                      936 false
                                                                                                                                                                                                                                                                                                                                                                                                         <tem_info... 2019-07-09 2019-03-27
```

370 ready to prepare

Little Brother Montg... 489 cancelled very low

Junior Wells 291 ready to prepare medium

512 finished low

[null]
The lime unique Lamp

982 false

The blue nasty Spoon

The brown amazing ...

<item info... 2019-07-17 2019-03-27

<tem_info... 2019-06-13 2019-03-27

<te><item_info... 2019-06-13 2019-03-27</ti>

15 1025131095 2018-04-25

19 1056141294 2018-06-04

1025131095 2018-04-25 crazy 1040231083 2013-03-21 weird

Richardson

Pink Anderson

```
XMLSQL
select xmlelement(name root, (
    select xmlagg(xml) from (
        select xmlelement (name worker,
            xmlattributes(svnr as svnr, entry_date as entrydate, unique_feature as unique_feature),
            xmlforest(
               first name as first name,
               last name as last name,
               nickname as nickname),
            xmlelement (name plans, (
               select xmlagg(
                   xmlelement (name plan, xmlattributes (plan_id as plan_id, status, priority),
                       xmlelement(name endproduct_name, plan.endproduct_name)
               ) from plan where plan.worker svnr = worker.svnr)
            xmlelement (name shopping items, (
               select xmlagg(
                   xmlelement (name item,
                       xmlattributes(item_id as item_id, is_finished as is_finished),
                       item info, -- the xml column
                           due_date as due_date,
                           list_entry_date as list_entry_date
                 from shopping_item where shopping_item.worker_svnr = worker.svnr)
        ) as xml from worker order by worker.svnr limit 100
));
 <worker svnr="1001201187" entrydate="2017-04-02" unique_feature="moody">
   <first name>Christopher</first name>
   <last name>Washington</last name>
   <nickname> Piano Red</nickname>
   <plans>
    <plan plan_id="196" status="ready to prepare" priority="very high">
      <endproduct_name>The red wine Monitor</endproduct_name>
    </plan>
   </plans>
   <shopping items>
    <item item id="637" is finished="false">
      <item info>
       <busy
         <seller_suggestion>Etsy</seller_suggestion>
```

```
<name>silver Wallet</name>
     </buying_info>
     <additional info>Whenever there is a problem... SOLVE IT!</additional info>
    </item info>
    <due_date>2019-06-01</due_date>
    <list_entry_date>2019-03-27</list_entry_date>
  </item>
  <item item id="885" is finished="false">
    <item info>
     <busy><br/>buying_info></br>
       <seller_suggestion>Kohls</seller_suggestion>
       <name>orange CD Elton John</name>
     </buying_info>
     <additional_info>It should be fancy.</additional_info>
    </item_info>
    <due date>2019-07-17</due date>
    <list_entry_date>2019-03-27</list_entry_date>
  </item>
 </shopping_items>
</worker>
<worker svnr="1001221180" entrydate="2015-10-17" unique feature="very cruel">
 <first name>Nicholas</first name>
 <last_name>Gamble</last_name>
 <nickname> Blind Joe Reynolds</nickname>
 <plans/>
 <shopping_items/>
</worker>
<worker svnr="1004121294" entrydate="2016-05-14" unique_feature="ambitious">
 <first name>Carolyn</first name>
 <last name>Garner</last name>
 <nickname> Cow Cow Davenport</nickname>
 <plans/>
 <shopping_items>
  <item item_id="250" is_finished="false">
    <item info>
     <busy
       <seller_suggestion>Sears</seller_suggestion>
       <name>blue Keyboard</name>
     </buying info>
     <additional_info>Business informatics rocks!</additional_info>
    </item info>
    <due date>2019-05-25</due date>
    list entry date>2019-03-27</list entry date>
  </item>
 </shopping items>
</worker>
<worker svnr="1016111279" entrydate="2014-11-01" unique_feature="proud">
 <first name>William</first name>
 <last name>Barnes</last name>
 <nickname> Hound Dog Taylor</nickname>
 <plans/>
 <shopping_items/>
</worker>
<worker svnr="1021191092" entrydate="2018-05-10" unique_feature="moody">
```

```
<first_name>Kelly</first_name>
 <last_name>Villarreal</last_name>
 <nickname> Blind Mississippi Morris</nickname>
 <plans>
  <plan plan_id="709" status="ready to prepare" priority="low">
    <endproduct_name>The tan ordinary Hoover</endproduct_name>
  </plan>
 </plans>
 <shopping items>
  <item item_id="162" is_finished="false">
    <item_info>
     <busy
       <seller_suggestion>Kohls</seller_suggestion>
       <name>yellow Latex Book</name>
     </buying_info>
     <additional info>We are the best! Never forget that.</additional info>
    </item info>
    <due date>2019-07-17</due date>
    <list_entry_date>2019-03-27</list_entry_date>
  </item>
  <item item id="959" is finished="false">
    <item info>
     <busy
       <seller_suggestion>Kohls</seller_suggestion>
       <name>teal Box</name>
     </buying info>
     <additional_info>We are the best! Never forget that.</additional_info>
    </item_info>
    <due date>2019-07-11</due date>
    list entry date>2019-03-27</list entry date>
  </item>
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 <first name>Roger</first name>
 <last_name>Everett</last_name>
 <nickname> Lead Belly</nickname>
 <plans>
  <plan plan_id="358" status="working" priority="very low">
    <endproduct_name>The magenta few Ultrasonic Sensors for Mbot</endproduct_name>
  </plan>
  <plan plan id="393" status="working" priority="low">
    <endproduct name>The purple economy Wallet</endproduct name>
  </plan>
 </plans>
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  <item item_id="399" is_finished="false">
    <item_info>
     <busy
       <seller_suggestion>Costco</seller_suggestion>
       <name>gray Printer</name>
     </buying info>
     <additional info>Make it very nice.</additional info>
    </item info>
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<due_date>2019-05-09</due_date>
    <list_entry_date>2019-03-27
   </item>
   <item item_id="931" is_finished="false">
    <item_info>
      <busy><br/>buying_info></br>
       <seller suggestion>Amazon</seller suggestion>
       <name>blue Chips</name>
      </buying info>
      <additional_info>Business informatics rocks!</additional_info>
    </item info>
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    <list_entry_date>2019-03-27</list_entry_date>
   </item>
   <item item_id="936" is_finished="false">
    <item info>
      <buy><br/>info></br/>
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       <name>silver Printer</name>
      </buying info>
      <additional info>Business informatics rocks!</additional info>
    </item info>
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   </item>
 </shopping items>
</worker>
<worker svnr="1024191282" entrydate="2013-10-19" unique_feature="cautious">
 <first name>Katherine</first name>
 <last name>Galloway</last name>
 <nickname> Catfish Keith</nickname>
 <plans/>
 <shopping_items/>
</worker>
<worker svnr="1025131095" entrydate="2018-04-25" unique feature="crazy">
 <first_name>Raymond</first_name>
 <last_name>Richardson/last_name>
 <nickname> Pink Anderson</nickname>
 <plans>
   <plan plan id="370" status="ready to prepare" priority="medium">
    <endproduct_name>The lime unique Lamp</endproduct_name>
   </plan>
 </plans>
 <shopping items>
   <item item id="85" is finished="false">
    <item_info>
      <busy><br/>buying_info></br>
       <seller_suggestion>Amazon</seller_suggestion>
       <name>olive Box</name>
      </buying_info>
      <additional_info>Whenever there is a problem... SOLVE IT!</additional_info>
    </item info>
    <due date>2019-07-17</due date>
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</item>
 </shopping_items>
</worker>
<worker svnr="1040231083" entrydate="2013-03-21" unique feature="weird">
 <first_name>Larry</first_name>
 <last name>Pratt</last name>
 <nickname> Little Brother Montgomery</nickname>
 <plans>
  <plan plan id="289" status="prepared" priority="very high">
    <endproduct_name>The teal clean Cable</endproduct_name>
  </plan>
  <plan plan id="489" status="cancelled" priority="very low">
    <endproduct_name>The blue nasty Spoon</endproduct_name>
  </plan>
 </plans>
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  <item item id="982" is finished="false">
    <item info>
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       <name>lime Bag</name>
     </buying info>
     <additional_info>Whenever there is a problem... SOLVE IT!</additional_info>
    </item_info>
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  </item>
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</worker>
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 <first name>Alexis</first name>
 <last name>Mcdowell</last name>
 <nickname> Junior Wells</nickname>
 <plans>
  <plan plan id="291" status="ready to prepare" priority="medium">
    <endproduct_name>The olive east Lamp</endproduct_name>
  </plan>
 </plans>
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 <first name>Theresa</first name>
 <last name>Grimes</last name>
 <nickname> Big Maceo Merriweather</nickname>
  <plan plan_id="512" status="finished" priority="low">
    <endproduct_name>The brown amazing Hoover</endproduct_name>
  <plan plan id="517" status="finished" priority="high">
    <endproduct_name>The silver actual Keyboard</endproduct_name>
  </plan>
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</root>