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Datenbanksysteme, SoSe 18

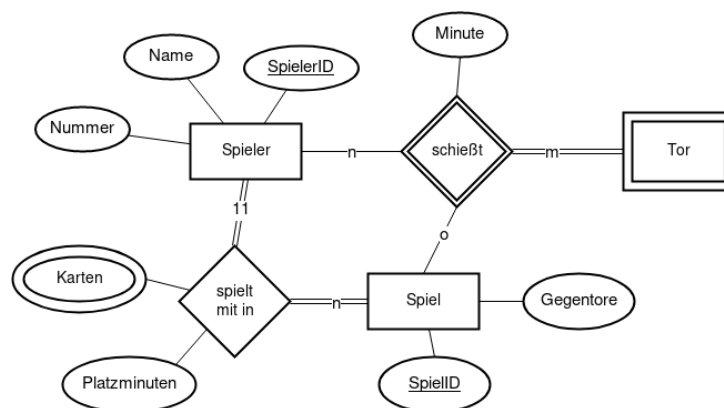
Übung 014

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Tutorium 03

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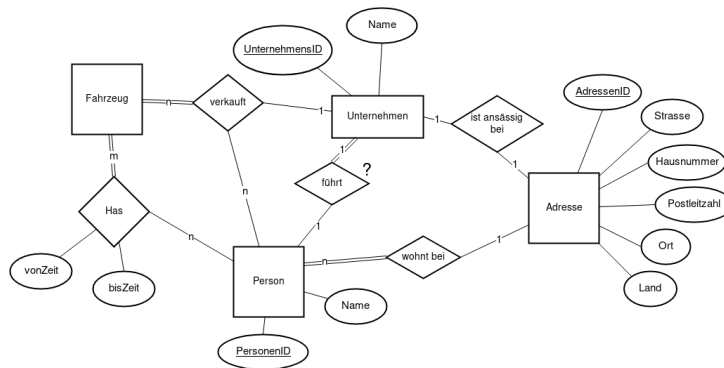
6. Mai 2018

Task 1: ER-Modellierung



Task 2: Relationales Modell

- Zimmer(ZNummer, Etage)
- Gast(GName, Kreditkartennummer)
- Buchung(ZNummer, GName, Von, Bis)
- Reinigungskraft(RName, Personalnummer)
- Reinigung(RName, ZNummer, Tag)



Task 3: Reverse Engineering

Task 4: Apple Aktienchart

Listing 1: Apple Actionchart

```

1 <!doctype html>
2 <html>
3
4 <head>
5   <meta charset="utf-8">
6   <title>Apple Aktie</title>
7   <script language="javascript" type="text/javascript" src="jquery.js"></script>
8   <script language="javascript" type="text/javascript" src="jquery.flot.js"></script>
9   <script language="javascript" type="text/javascript" src="jquery.flot.time.js"></script>
10  <script type="text/javascript">
11    $(function () {
12      var tief = [ ["31.01.17", 111.78], ["30.01.17", 112.90], ["27.01.17",
113.70], ["26.01.17", 113.20], ["25.01.17", 111.70], ["24.01.17", 110.90], ["23.01.17",
111.04], ["20.01.17", 112.14], ["19.01.17", 111.99], ["18.01.17", 112.00], ["17.01.17",
110.00], ["16.01.17", 111.72], ["13.01.17", 111.60], ["12.01.17", 110.94], ["11.01.17",
111.83], ["10.01.17", 111.80], ["09.01.17", 111.60], ["06.01.17", 109.80], ["05.01.17", 109.40], ["04.01.17", 110.53], ["03.01.17", 110.11], ["02.01.17", 109.30] ];
13      var hoch = [ ["31.01.17", 113.50], ["30.01.17", 113.99], ["27.01.17",
114.46], ["26.01.17", 114.38], ["25.01.17", 113.65], ["24.01.17", 111.73], ["23.01.17",
112.50], ["20.01.17", 113.10], ["19.01.17", 113.09], ["18.01.17", 112.70], ["17.01.17",
112.29], ["16.01.17", 112.45], ["13.01.17", 112.50], ["12.01.17", 112.60], ["11.01.17",
113.86], ["10.01.17", 112.90], ["09.01.17", 113.10], ["06.01.17", 112.00], ["05.01.17", 110.73], ["04.01.17", 111.70], ["03.01.17", 112.09], ["02.01.17", 110.80] ];
14      var tageswert = [ ["31.01.17", 110.30], ["30.01.17", 110.68], ["27.01.17",
111.03], ["26.01.17", 110.00], ["25.01.17", 111.61], ["24.01.17", 112.46], ["23.01.17",
112.75], ["20.01.17", 112.17], ["19.01.17", 111.76], ["18.01.17", 111.76], ["17.01.17",
112.00], ["16.01.17", 112.08], ["13.01.17", 112.35], ["12.01.17", 112.71], ["11.01.17",
112.14], ["10.01.17", 111.74], ["09.01.17", 111.51], ["06.01.17", 113.65], ["05.01.17", 114.00], ["04.01.17", 114.03], ["03.01.17", 113.35], ["02.01.17", 111.91] ];
15      var handelsvolumen = [ ["31.01.17", 2330417], ["30.01.17", 882614], ["27.01.17",
449615], ["26.01.17", 746100], ["25.01.17", 700163], ["24.01.17", 1297576], ["23.01.17", 1691504], ["20.01.17", 1521071], ["19.01.17", 1073743], ["18.01.17",
1149538], ["17.01.17", 861942], ["16.01.17", 848050], ["13.01.17", 528968], ["12.01.17", 778900], ["11.01.17", 610841], ["10.01.17", 366744], ["09.01.17", 734456], ["06.01.17",
1221101], ["05.01.17", 1302214], ["04.01.17", 739897], ["03.01.17", 1268146], ["02.01.17", 988174] ];

17      function mapfn(x) {
18        var date_parsed = Date.parse(x[0].replace(/(\d{2})\.(\d{2})\.(\d{2})/, "20
$3-$2-$1"));
19        return [date_parsed, x[1]];
20      }
  
```

```

21     var d1 = [
22         {label: "Tagestief" , color: "red" , data: tief .map(mapfn)},
23         {label: "Tageshoch" , color: "green" , data: hoch .map(mapfn)},
24         {label: "Tagesendwert", color: "yellow", data: tageswert.map(mapfn)},
25     ];
26     var d2 = [{
27         label: "Handelsvolumen",
28         data: handelsvolumen.map(mapfn),
29         bars: {show: true, barWidth: 24*60*60*1000, align: "center"}
30     }];

32     $.plot("#linechart", d1, {xaxis: {mode: "time"}});
33     $.plot("#barchart" , d2, {xaxis: {mode: "time"}});
34     });
35 </script>
36 <style>
37     .chart {
38         width: 600px;
39         height: 400px;
40         float: left;
41     }
42 </style>
43 </head>

45 <body>
46     <div class="chart" id="linechart"></div>
47     <div class="chart" id="barchart"></div>
48 </body>
49 </html>

```

Für die JavaScript-Dateien, siehe <https://github.com/flot/flot>.