

Query Optimization Exercise1

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1 Exercise 1: SQL queries and execution plans

The execution plans are the same as the queries are executed in the programming exercise using tinydb.

1.1 Query 1

```
SELECT s2.name  
FROM studenten s1, studenten s2, hoeren h1, hoeren h2  
WHERE  
s1.name = "Schopenhauer" AND  
s1.matrnr = h1.matrnr AND  
h2.vorlNr = h1.vorlNr AND  
h2.matrnr = s2.matrnr AND  
s1.name <> s2.name ;
```

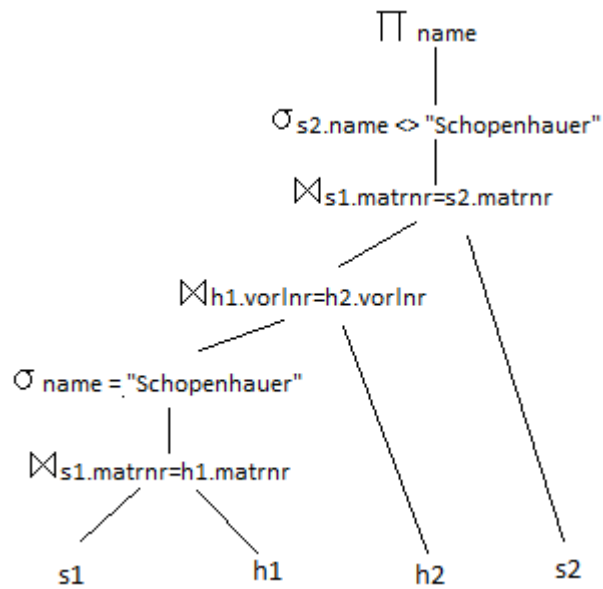


Figure 1: Query 1

1.2 Query 2

```
SELECT p.name
FROM professoren p, hoeren h1, hoeren h2, vorlesungen v
WHERE
h1.matrnr <> h2.matrnr AND
h1.vorlnr = h2.vorlnr AND
v.vorlnr = h1.vorlnr AND
v.gelesenvon = p.persnr ;
```

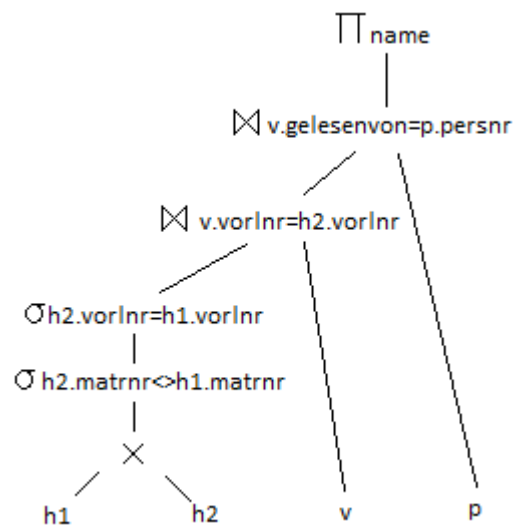


Figure 2: Query 2