

# Introduction to Databases, ITU, Fall 2005

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## Exercises on October 10

### Subqueries

1. GUW 6.3.2 a), b), c), d) on p. 275. Test your queries in Oracle on the sample data you entered in the beginning of the course.
2. GUW 6.3.1. b) + c). Enter the sample data in Oracle and run your **four** queries.
3. Gradiance: “Bars and Beers 2”, question 3. “Bookstore”, question 4. (Can you solve the latter without a correlated subquery?).

### OLAP

In these exercises you will create a star schema, based on raw data from:

<http://www.itu.dk/people/pagh/IDB05/data/OLAP-table.sql>

1. Data in the OLAP table is “raw” fact data, i.e., not in the recommended star schema. Your task is to create **WHAT**, **HOW** and **WHERE** as dimension tables, and create a new version of the OLAP table referring to these dimension tables. To get a compact, unique key for each tuple in the dimension tables you can use Oracle’s **rownum** variable in the **SELECT** part of the query creating the table.
2. Try out the star schema with SQL queries of your choice.