

Exercise 1

Course Name: Data Warehousing

Lecturer: Masoud Faizi

E-Mail: ms.cs180@gmail.com

Deadline: 24.3.2021, 10:15 AM

Email Subject: DW_EX1

Note: Use both sql files, sakila-data.sql & sakila-schema.sql

Structured Query Language

Important Operators for Data Warehouse:

- **SELECT (DISTINCT)** Attribute1, Attribute2, ...
 - Aggregations: **COUNT, SUM, AVG, MIN, MAX, ...**
- **FROM** Table1, Table2, ...
 - T1 (**OUTER**) **JOIN** T2 **ON** T1.X = T2.Y
- **WHERE** Condition1 **AND** Condition2 **OR** ...
- **GROUP BY** Attribute1, Attribute2, ...
- **HAVING** Aggregation-related-Condition
- **ORDER BY** AttributeX (**ASC/DESC**)

Exercise: SQL Queries

Based on the sakila_db, write a SQL query for each sentence:

1. In which films does the actor “Nick Wahlberg“ appear?
2. How many different film categories exist?
3. Provide a list of all store managers, sorted by lastname.
4. How many staff members are listed, based on each country?
5. In the year 2005, how much payment was received in total/by each customer?