# Dataman - SQL Pattern - SoSe 23

### Query on one Table

select column1, column2, column3 as name from table where left=right;

#### Join of two Tables

select column1, column2, column3 as name from table1 t1

join table2 t2 on t2.column=t1.column where left=right;

#### Aggregation

select sum(column) as total, avg(column) as mean, count(\*) as number\_of from table where left=right;

#### Aggregation with Join

select column1, column2, sum(column3) as total , count(\*) as number\_of from table t1 join table2 t2 on t2.column=t1.column group by column1, column2 having count(\*) = 10

# Subquery in Where Part

select column1, column2 from table where left = ( subquery here

)

#### Query on one Table with null Condition

select column1, column2, column3 as name from table where column is null;

#### Join of three Tables

select column1, column2, column3 as name from table1 t1

join table2 t2 on t2.column=t1.column join table3 t3 on t3.column=t2.column where left=right;

# Aggregation with Grouping

select column1, column2, sum(column3) as total , count(\*) as number\_of from table group by column1, column2

# Join of four Tables

select column1, column2, column3 as name from table1 t1 join table2 t2 on t2.column=t1.column join table3 t3 on t3.column=t2.column join table4 t4 on t4.column=t3.column where left=right;

#### Aggregation with Condition on Group Level

select column1, column2, sum(column3) as total , count(\*) as number\_of from table group by column1, column2 having count(\*) = 10

#### Subquery in Select Part

select column1, (subquery here) from table where left = right

#### **Subquery in From Part**

select column1, column2 from table t1 join (subquery here) t2 on t2.column=t1.column where left = right