Session 2 Reflection

1. selects all the values of a specific column;

SELECT \* FROM Departments;

2. selects all the rows in which a column matches a specific value;

SELECT \* FROM Equipment WHERE equipment\_type = 'Monitor';

3. selects all the rows that match a conjunction of two conditions;

SELECT \* FROM Equipment WHERE equipment\_type = "Monitor" AND employee\_id = 2;

4. selects all the rows that match a disjunction of two conditions;

SELECT \* FROM Equipment WHERE equipment\_type = "Monitor" OR employee\_id = 2;

5. produces a concatenation of two columns;

SELECT fname || ' ' || lname as fullName FROM Employees;

SELECT fname, lname, CONCAT(fname, lname) as fullName FROM Employees;

6. includes a filtering into two or more sub-cases;

SELECT equipment\_id, equipment\_type,

CASE

WHEN equipment\_type = "PC" THEN "To be retired"

WHEN equipment\_type = "Monitor" AND employee\_id = 1 THEN "New"

ELSE "Old"

END AS nextStep

FROM Equipment;

7. orders the rows by a column value in increasing order;

SELECT \* FROM Equipment ORDER BY serial\_number ASC;

8. shows only the top k > 0 rows with the highest values for a specific column for some fixed values of k;

SELECT \* FROM Equipment ORDER BY serial\_number DESC LIMIT 3;

SELECT TOP 3 \* FROM Equipment;

9. shows only the bottom k rows with the lowest values for a specific column.

SELECT \* FROM (

SELECT \* FROM Equipment

ORDER BY equipment\_id DESC LIMIT 3

) AS bottom3 ORDER BY equipment\_id;