

Mason Scercy

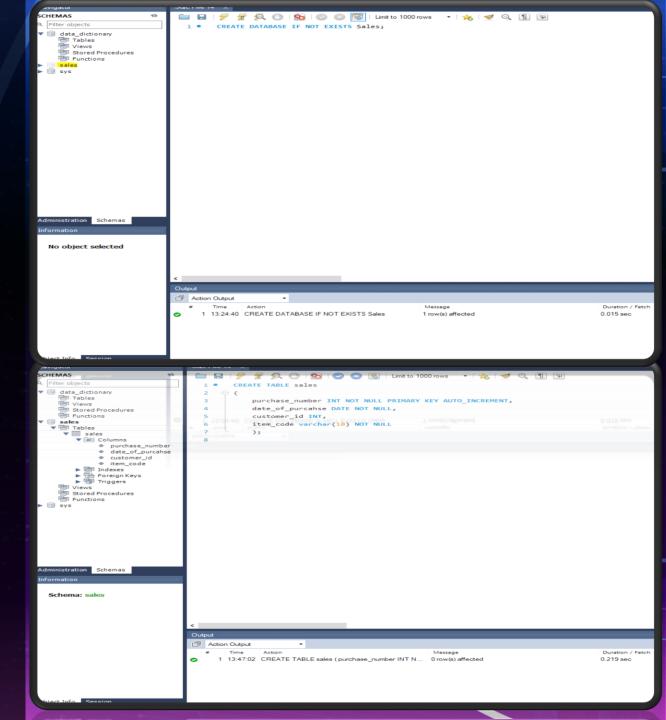
Introduction

Structured Query Language(SQL) is used in relational databases to extract and manipulate data.

- Database and table creation
- Data extraction
- Table Manipulation with JOINs
- Query and Subquery writing

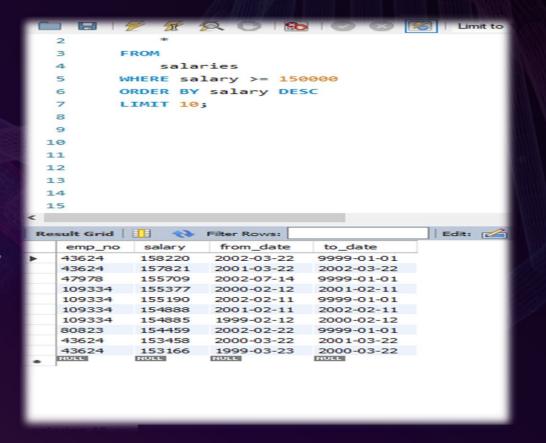
Database and Table Creation

```
102
        # shows only the current department for each employee
103
        CREATE OR REPLACE VIEW current dept emp AS
             SELECT 1.emp no, dept no, 1.from date, 1.to date
105
106
             FROM dept emp d
107
                INNER JOIN dept_emp_latest_date 1
                ON d.emp no=1.emp no AND d.from date=1.from date AND 1.to date = d.to date;
108
109
        flush /*!50503 binary */ logs;
111
         INSERT INTO 'employees' VALUES (10001, '1953-09-02', 'Georgi', 'Facello', 'M', '1986-06-26'),
        (10002, '1964-06-02', 'Bezalel', 'Simmel', 'F', '1985-11-21'),
113
114
        (10003, '1959-12-03', 'Parto', 'Bamford', 'M', '1986-08-28'),
        (10004, '1954-05-01', 'Chirstian', 'Koblick', 'M', '1986-12-01'),
115
```



DATA EXTRACTION

Greater than



Like

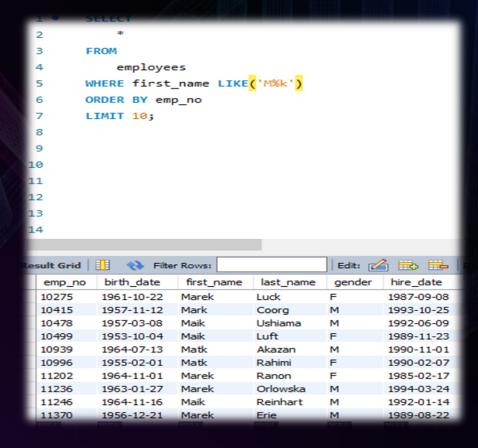
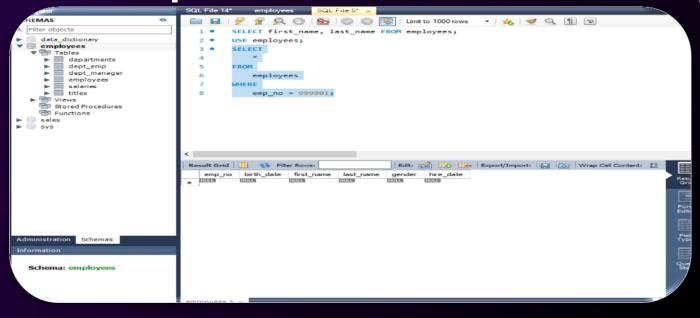
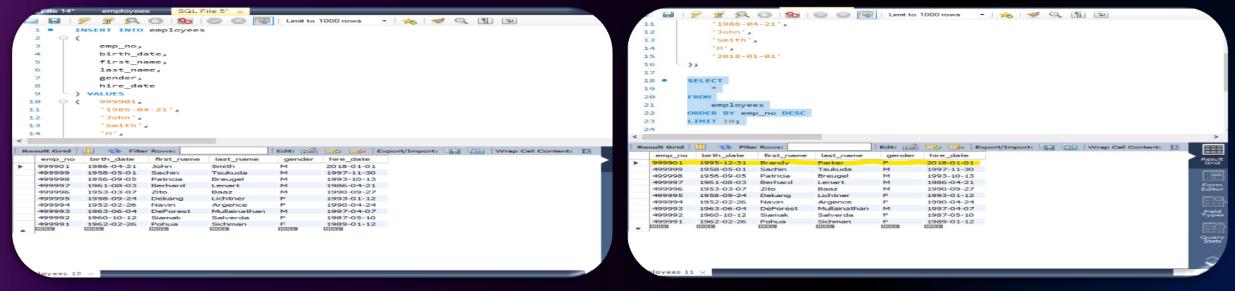


Table Manipulation Inset & Update





Aggregate

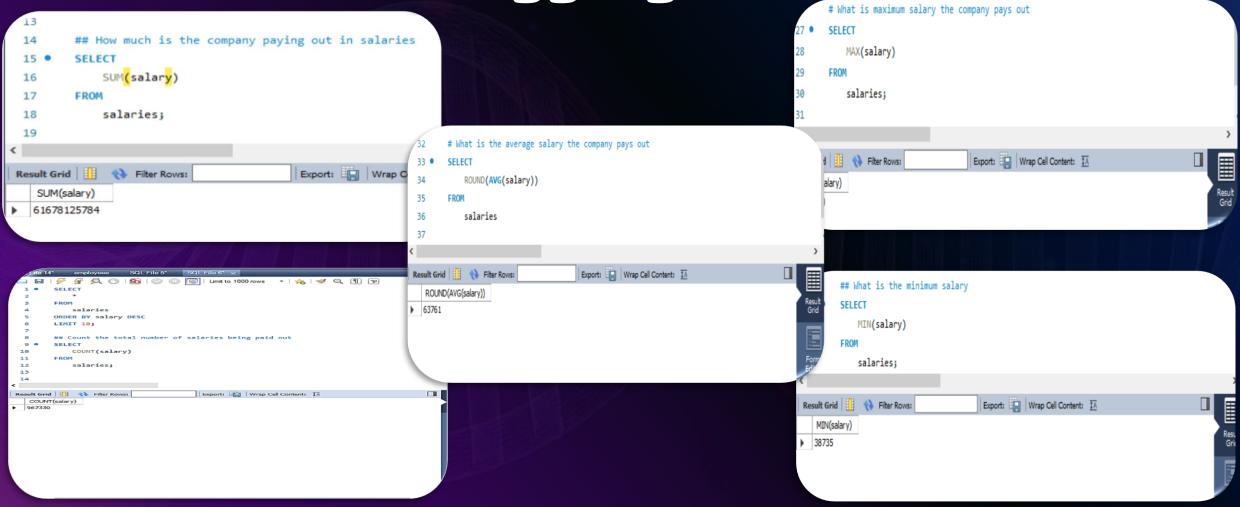
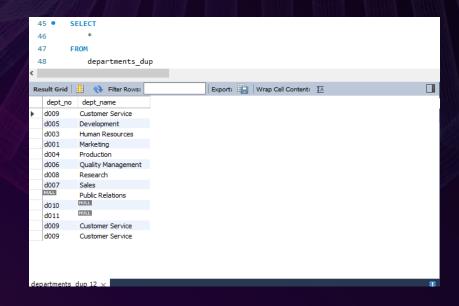
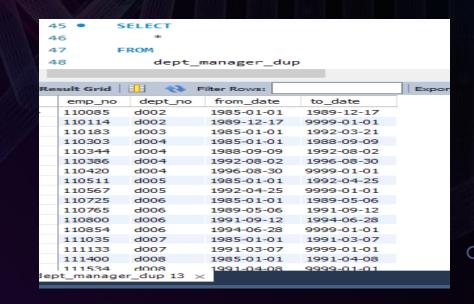


Table Manipulation W/ Join Tables

Departments

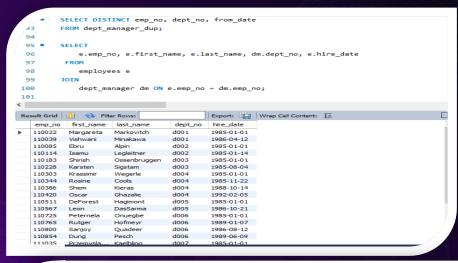


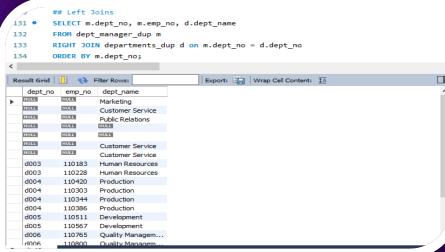
Dept_manager

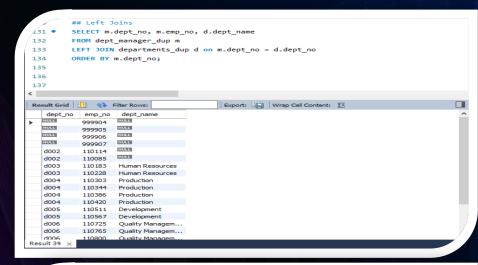


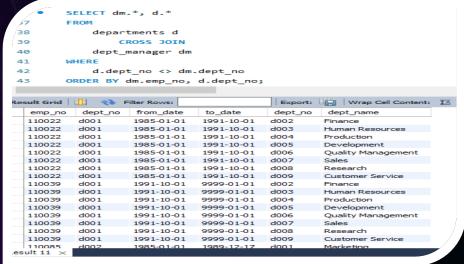
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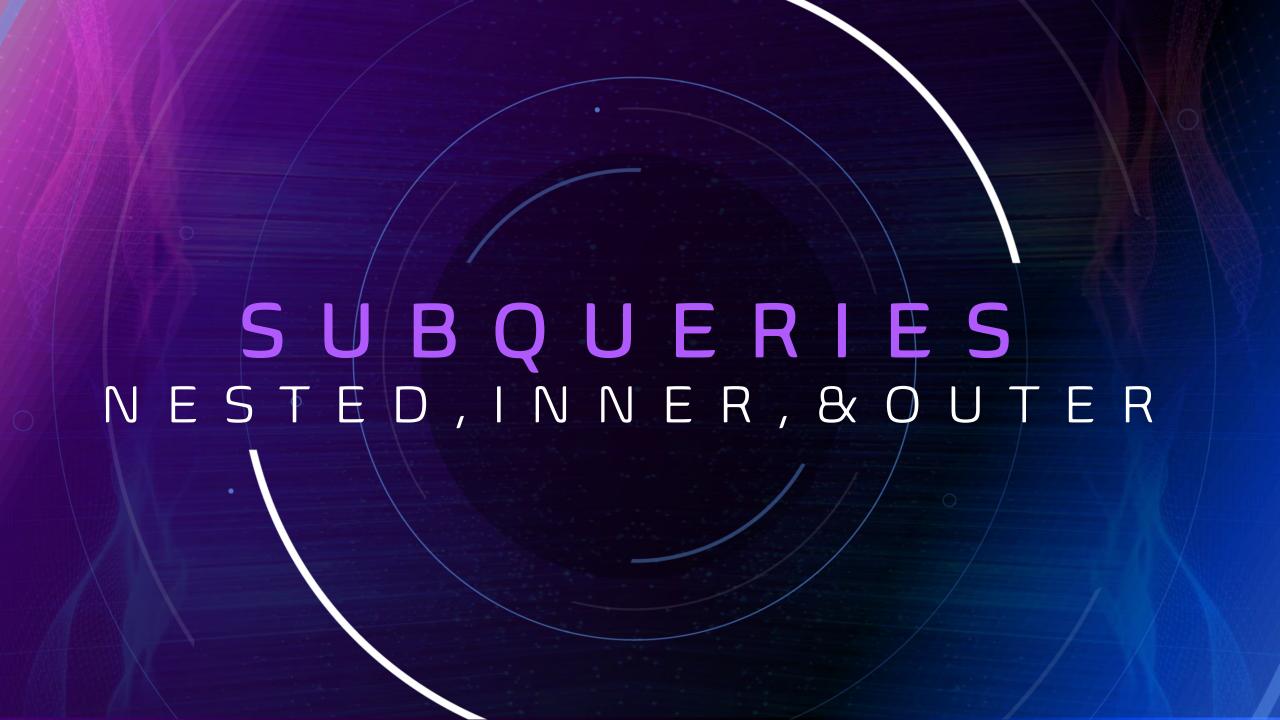
INNER, RIGHT, LEFT & CROSS JOINS



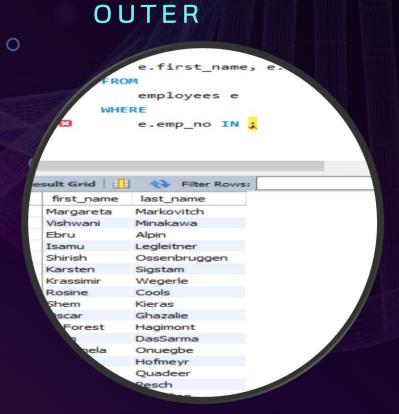




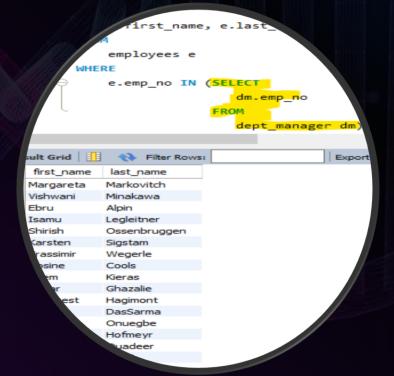




NESTED with 'IN'



INNER



NESTED Inside 'SELECT & FROM'

- ✓ Outer query "SELECT down to ORDER BY"
- ✓ Inner Subquery is inside the parenthesis's

```
19
          SELECT
              e.emp no as employee ID,
 20
 21
              MIN(de.dept no) AS department code,
 22
              (SELECT
 23
                   emp_no
 24
              FROM
 25
                   dept manager
 26
              WHERE
 27
                   emp no = 110022) AS manager ID
 28
          FROM
 29
              employees e
 30
                   DOIN
 31
              dept emp de ON e.emp no = de.emp no
 32
         WHERE
 33
              e.emp no >= 10020
         GROUP BY e.emp_no
 34
 35
          ORDER BY e.emp no;
          Export: W
Result Grid
                Filter Rows:
   employee ID
                 department_code
                                  manager_ID
   10020
                d004
                                  110022
   10021
                d005
                                  110022
   10022
                d005
                                  110022
                d005
                                  110022
   10023
                                  110022
   10024
                d004
   10025
                d005
                                 110022
   10026
                d004
                                  110022
   10027
                d005
                                  110022
   10028
                d005
                                  110022
   10029
                d004
                                  110022
   10030
                d004
                                  110022
   10031
                d005
                                 110022
   10032
                d004
                                  110022
   10033
                4006
                                  110022
```

Thank you

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