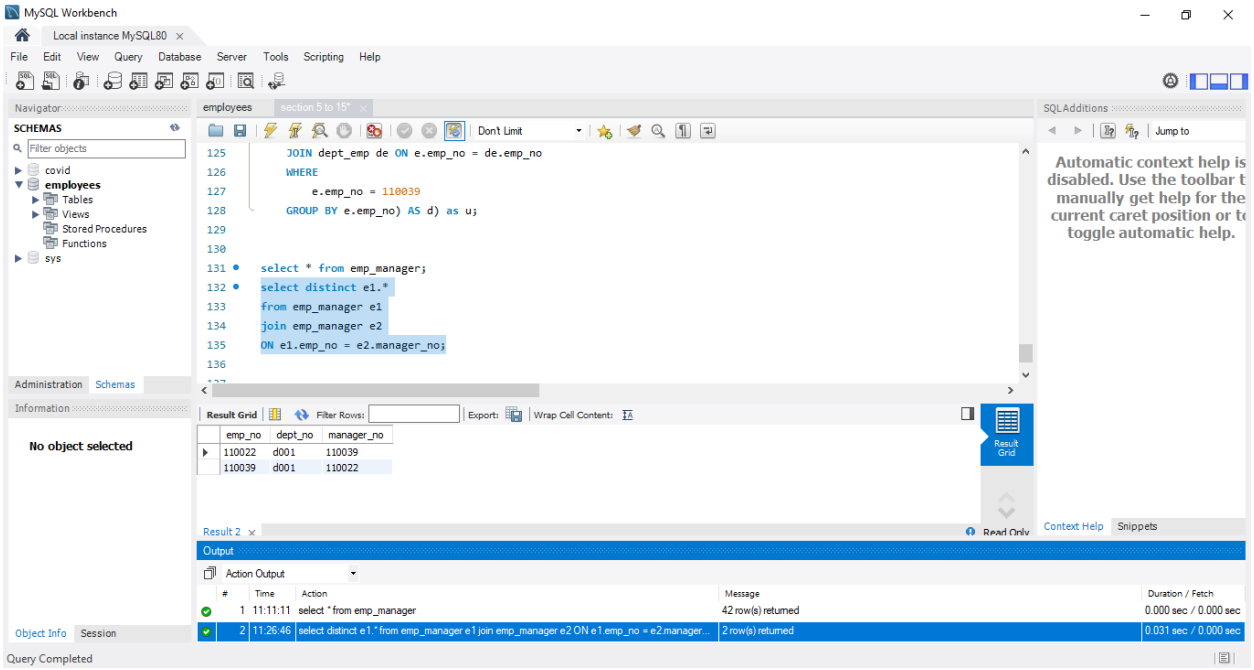
SECTION 16 & 17

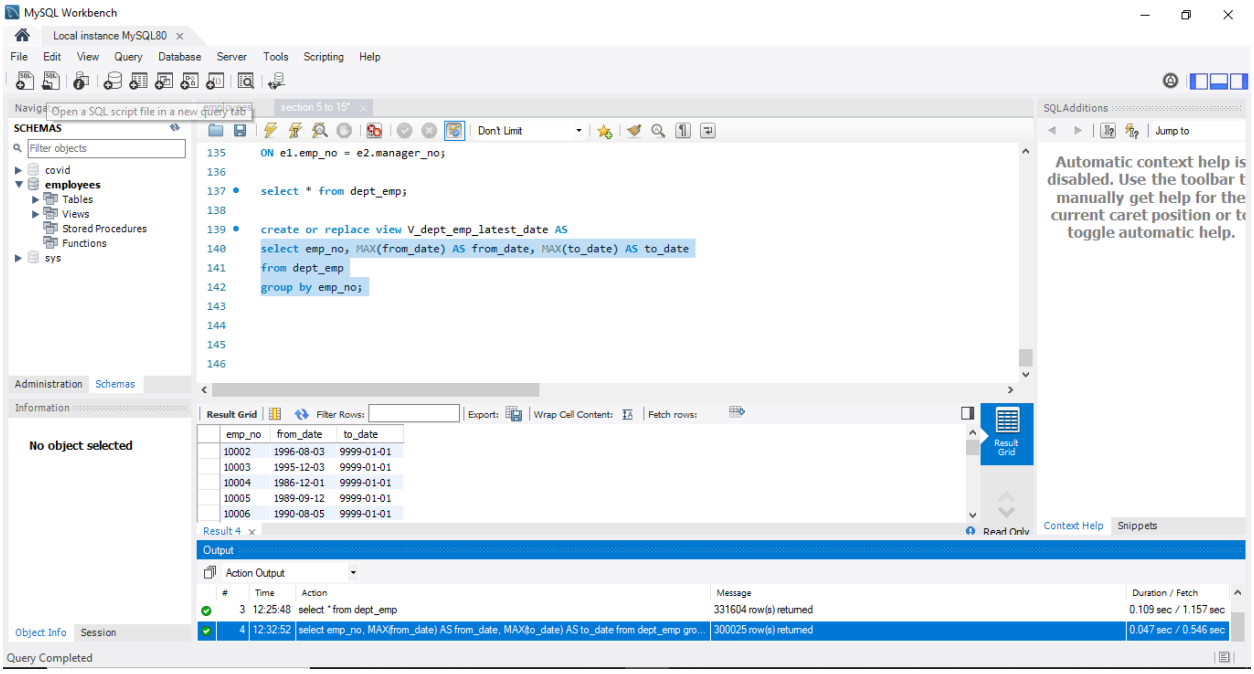
Our topic is Self_Join:

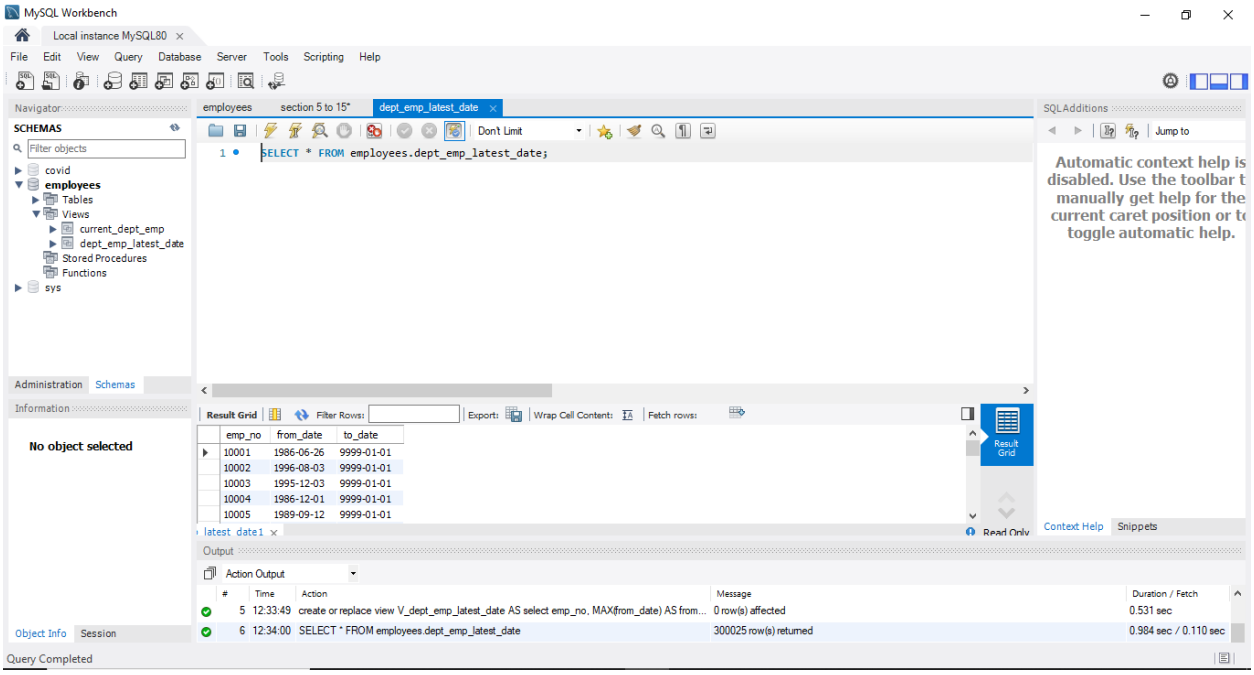
Our task is from the previously cretaed employee manager table, extract the record data only of those employees who are managers as well.



Next topic is Views:

Imagine you wanted to see a tabular output with a number of each employee shown only once having their latest starting and ending date. Simply put, you need to visualize only the period encompassing the last contract of each employee.



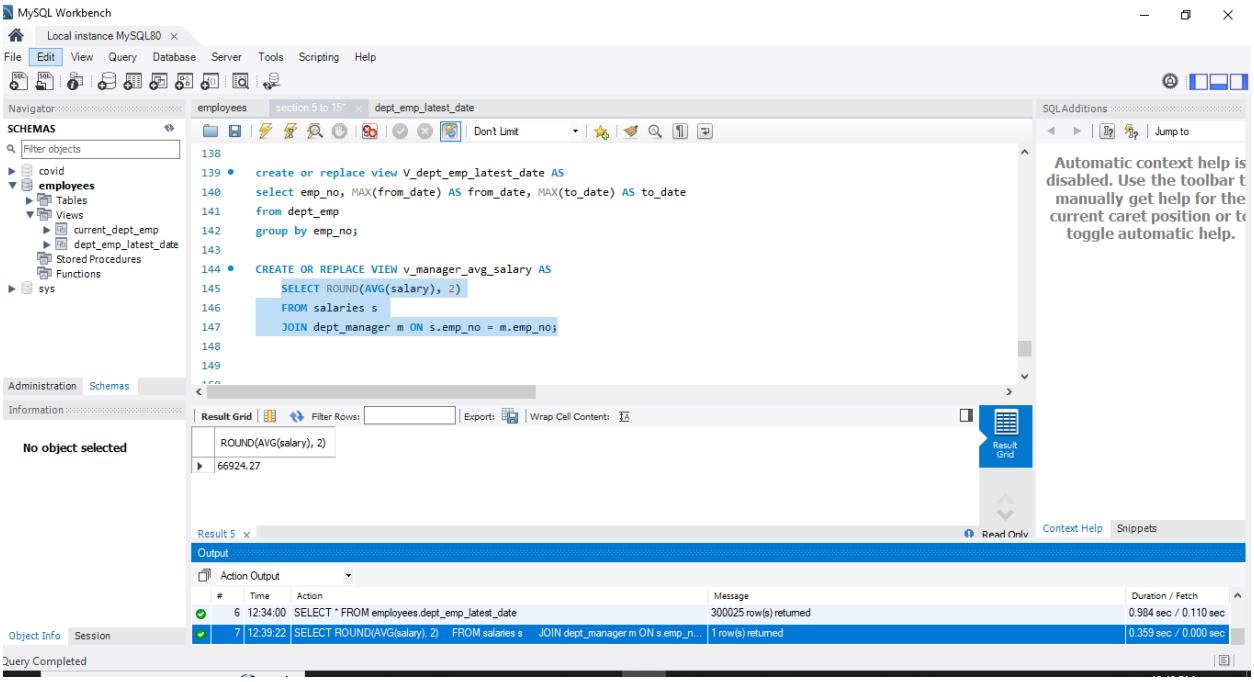


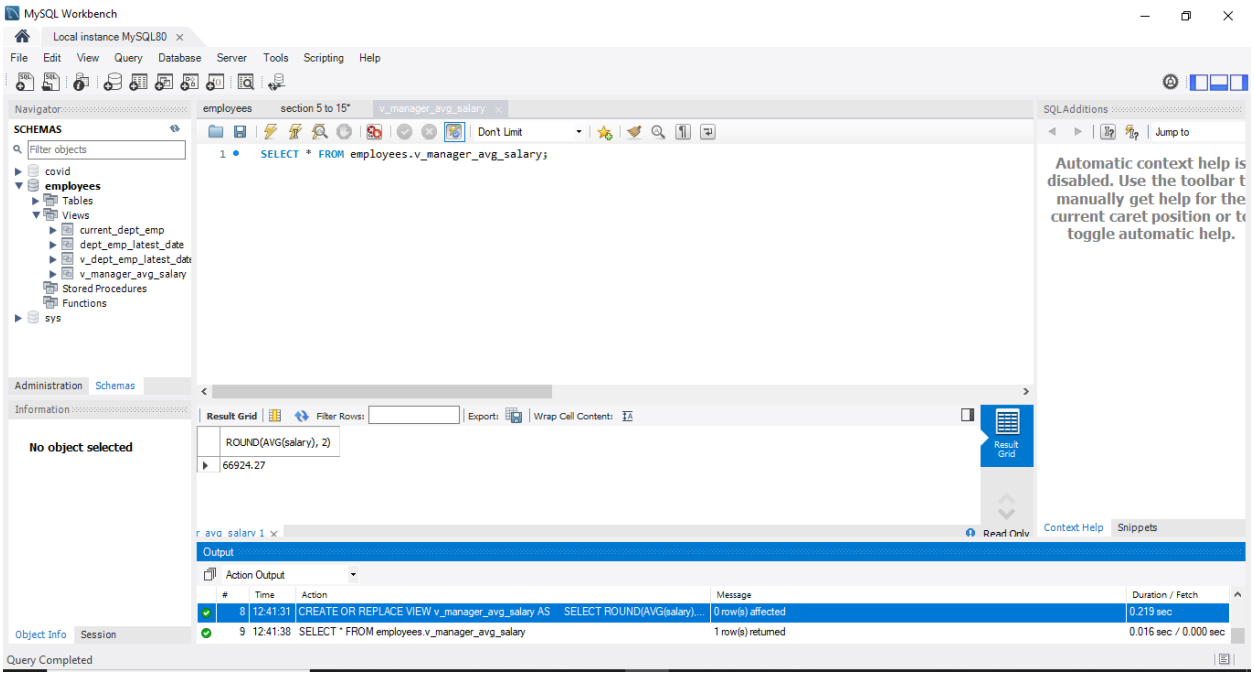
Exercise:

Create a view that will extract the average salary of all managers registered in the database. Round this value to the nearest cent.

If you have worked correctly, after executing the view from the “Schemas” section in Workbench, you should obtain the value of 66924.27.

Solution:


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
covid
employees
Tables
Views
current_dept_emp
dept_emp_latest_date
Stored Procedures
Functions
sys
create or replace view V_dept_emp_latest_date AS
select emp_no, MAX(from_date) AS from_date, MAX(to_date) AS to_date
from dept_emp
group by emp_no;
CREATE OR REPLACE VIEW v_manager_avg_salary AS
SELECT ROUND(AVG(salary), 2)
FROM salaries s
JOIN dept_manager m ON s.emp_no = m.emp_no;
No object selected
ROUND(AVG(salary), 2)
66924.27
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
Output
Action Output
6 12:34:00 SELECT * FROM employees.dept_emp_latest_date 300025 row(s) returned 0.984 sec / 0.110 sec
7 12:39:22 SELECT ROUND(AVG(salary), 2) FROM salaries s JOIN dept_manager m ON s.emp_n... 1 row(s) returned 0.359 sec / 0.000 sec
Query Completed


MySQL Workbench
Local instance MySQL80
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SCHEMAS
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employees
Tables
Views
current_dept_emp
dept_emp_latest_date
v_dept_emp_latest_date
v_manager_avg_salary
Stored Procedures
Functions
sys
SELECT * FROM employees.v_manager_avg_salary;
No object selected
ROUND(AVG(salary), 2)
66924.27
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
Output
Action Output
8 12:41:31 CREATE OR REPLACE VIEW v_manager_avg_salary AS SELECT ROUND(AVG(salary),... 0 row(s) affected 0.219 sec
9 12:41:38 SELECT * FROM employees.v_manager_avg_salary 1 row(s) returned 0.016 sec / 0.000 sec
Query Completed