Basic Databases - Report07

Wroclaw University of Science and Technology, Date: May 31, 2021

Exercise

a) .

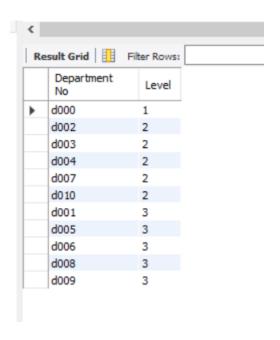
1. Prepare the queries according to given instructions

```
with recursive dept_hierarchy
(dept_no,org_no,level)
as (
select dept_no,org_no,1
from dept_org
where org_no = ""
union all
select c.dept_no,d.org_no,d.level+1
from dept_org c,dept_hierarchy d
where c.org_no = d.dept_no
)select dept_no,level from dept_hierarchy
order by level;
   b) .
WITH RECURSIVE dept_org_lvl (dept_no, org_no ,lvl) AS
(
 SELECT dept_no,org_no, 1 lvl
  FROM dept_org
  WHERE org_no ="
 UNION ALL
 SELECT d.dept_no,d.org_no,dl.lvl + 1
  FROM dept_org_lvl AS dl JOIN dept_org AS d
```

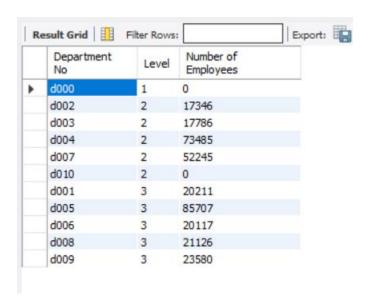
```
ON dl.dept_no = d.org_no
)
Select dl.dept_no as "Department No", dl.lvl as "Level", count(de.emp_no) as "Number of employees"
from dept_org_lvl as dl left join dept_emp as de
on dl.dept_no = de.dept_no
group by dl.dept_no
order by dl.lvl;
```

Recommended results:

a)



b)



Remarks:

1. The rule of naming a student's file report is defined below

Name of the file: Rep07-Studid-Last	Example: Rep07-1951355-
name.pdf	Turan.pdf