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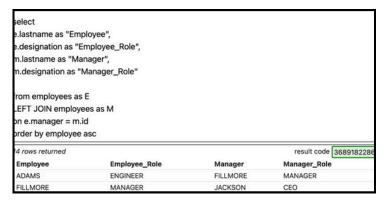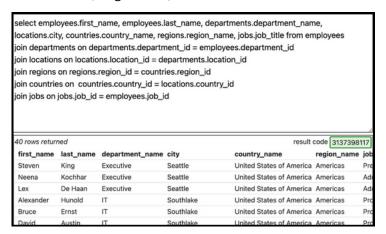
SQL Examples
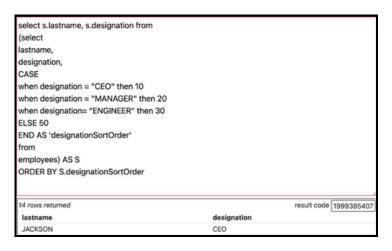
Example 1: Returns the name of each employee (A-Z), their role, manager, and their manager's role from Employees Database.

```
select
e.lastname as "Employee",
e.designation as "Employee_Role",
m.lastname as "Manager",
m.designation as "Manager_Role"

from employees as E
LEFT JOIN employees as M
on e.manager = m.id
order by employee asc
```

4 rows returned			result code 3689182286
Employee	Employee_Role	Manager	Manager_Role
ADAMS	ENGINEER	FILLMORE	MANAGER
FILLMORE	MANAGER	JACKSON	CEO

Example 2: Returns the first and last name of employees, their department name, city, country, region, and job title. Joins employees Database, Jobs DB, Departments DB, Locations DB, Regions DB, Countries DB.

```
select employees.first_name, employees.last_name,
locations.city, countries.country_name, regions.region_name, jobs.job_title from employees
join departments on departments.department_id = employees.department_id
join locations on locations.location_id = departments.location_id
join regions on regions.region_id = countries.region_id
join countries on  countries.country_id = locations.country_id
join jobs on jobs.job_id = employees.job_id
```

40 rows returned				result code 3137398117	
first_name	last_name	department_name	city	country_name	region_name job
Steven	King	Executive	Seattle	United States of America	Americas Pre
Neena	Kochhar	Executive	Seattle	United States of America	Americas Ad
Lex	De Haan	Executive	Seattle	United States of America	Americas Ad
Alexander	Hunold	IT	Southlake	United States of America	Americas Pro
Bruce	Ernst	IT	Southlake	United States of America	Americas Pro
David	Austin	IT	Southlake	United States of America	Americas Pro

Example 3: Sorts different employee designations by values with CASE. Uses that as a subquery to order the employee last name and designation by associated value.

```
select s.lastname, s.designation from
(select
lastname,
designation,
CASE
when designation = "CEO" then 10
when designation = "MANAGER" then 20
when designation= "ENGINEER" then 30
ELSE 50
END AS 'designationSortOrder'
from
employees) AS S
ORDER BY S.designationSortOrder
```

14 rows returned	result code 1999385407
lastname	designation
JACKSON	CEO

Queries
Example 1:

```
select
e.lastname as "Employee",
e.designation as "Employee_Role",
m.lastname as "Manager",
m.designation as "Manager_Role"
from employees as E
LEFT JOIN employees as M
on e.manager = m.id
order by employees asc
```

Example 2:

```
select
employees.first_name, employees.last_name,
departments.department_name, locations.city,
countries.country_name, regions.region_name, jobs.job_title from
employees

join departments on departments.department_id =
employees.department_id
join locations on locations.location_id = departments.location_id

join regions on regions.region_id = countries.region_id

join countries on countries.country_id
 = location.country_id
join jobs on jobs.job_id = employees.job_id
```

Example 3:

```
select
s.lastname, s.designation from

(select lastname, designation, CASE
when designation = "CEO" then 10
when designation = "MANAGER" then 20
when desigation = "ENGINEER" then 30
ELSE 50
END AS 'designationSortOrder'
from employees)
as S
ORDER BY s.designationSortOrder
```