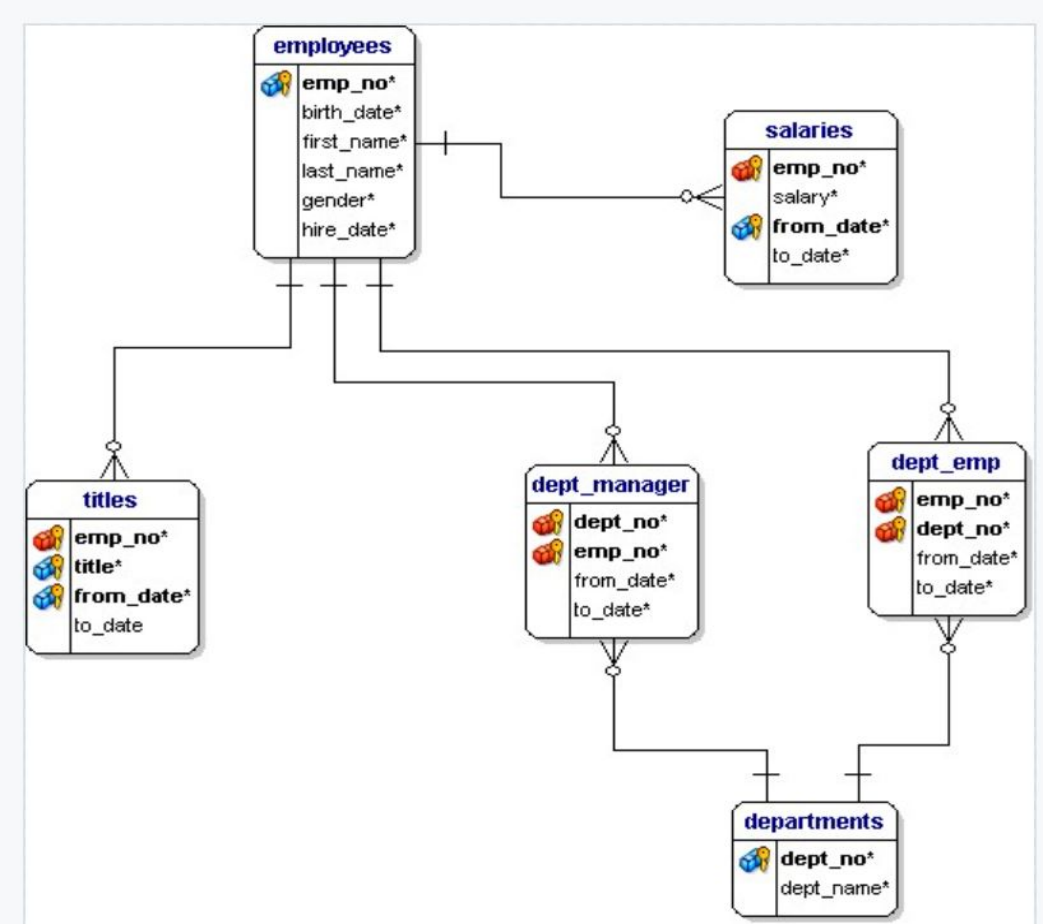
SQL PROJECT ON EMPLOYEES DATA



1.list of employees by department

Question: Write a query to list all employees along with their respective department names. Include employee number, first name, last name, department number, and department name.

SQL File 3* | employees | departments | dept_emp | dept_manager | salaries | titles

Limit to 1000 rows

```
1   -- list of employees by department
2
3   select employees.emp_no,employees.first_name,employees.last_name,departments.dept_no,departments.dept_name
4   from departments join dept_emp
5   on departments.dept_no=dept_emp.dept_no
6   join employees
7   on employees.emp_no=dept_emp.emp_no;
```

Result Grid | Filter Rows: | Export: | Wrap C

emp_no	first_name	last_name	dept_no	dept_name
10011	Mary	Sluis	d009	Customer Service
10038	Huan	Lortz	d009	Customer Service
10049	Basil	Tramer	d009	Customer Service
10060	Breannda	Billingsley	d009	Customer Service
10088	Jungsoon	Syrzycki	d009	Customer Service
10098	Sreekrishna	Servieres	d009	Customer Service

2.Employees with Specific Titles

Question: Write a query to find all employees who have held a specific title (e.g., ‘Engineer’). Include employee number, first namelast name, and title.

SQL File 3* | SQL File 4* | employees | departments | dept_emp | dept_manager | salaries

Limit to 1000 rows

```sql
-- Employees with Specific Titles
-- Question: Write a query to find all employees who have held
-- a specific title (e.g., ‘Engineer’). Include employee number, first name,
-- last name, and title.

select titles.emp_no,employees.first_name, employees.last_name,titles.title
from titles join employees
on titles.emp_no=employees.emp_no
where titles.title="engineer";
```

Result Grid | Filter Rows: | Export:

emp_no	first_name	last_name	title	title
10004	Chirstian	Koblick	Engineer	Engineer
10009	Sumant	Peac	Engineer	Engineer
10010	Duangkaew	Piveteau	Engineer	Engineer
10012	Patricio	Bridgland	Engineer	Engineer
10014	Berni	Genin	Engineer	Engineer

3.Departments with Their managers

Question: Write a query to list all departments along with their current managers. Include department number, department name, manager's employee number, first name, and last name.

```
5
6  select departments.dept_name,departments.dept_no,dept_manager.emp_no,
7  employees.first_name,employees.last_name from departments join dept_manager
8  on departments.dept_no=dept_manager.dept_no
9  join employees
10 on employees.emp_no=dept_manager.emp_no;
```

Result Grid | Filter Rows: | Export: | Wra

dept_name	dept_no	emp_no	first_name	last_name
Customer Service	d009	111692	Tonny	Butterworth
Customer Service	d009	111784	Marjo	Giarratana
Customer Service	d009	111877	Xiaobin	Spinelli
Customer Service	d009	111939	Yuchang	Weedman
Development	d005	110511	DeForest	Hagimont

4.Employee Count by Department

Question: Write a query to count the number of employees in each department.Include department number, department name, and employee count.

```
1   -- Employee Count by Department
2   -- Question: Write a query to count the number of employees in each department.
3   -- Include department number, department name, and employee count.
4
5   select departments.dept_no,departments.dept_name as dept_name,count(employees.emp_no) as employees_count
6   from departments join dept_emp
7   on departments.dept_no=dept_emp.dept_no
8   join employees
9   on employees.emp_no=dept_emp.emp_no
10  group by dept_name
11  order by employees_count desc;
```

Result Grid | Filter Rows:

dept_no	dept_name	employees_count
d008	Research	21126
d001	Marketing	20211
d006	Quality Management	20117
d003	Human Resources	17786
d002	Finance	17346

5. Gender Distribution in Each Department

Question: Write a query to find the gender distribution (number of males and females) in each department. Include department number, department name, count of males, and count of females.

```
select departments.dept_no,departments.dept_name,
sum(case when employees.gender='M' then 1 else 0 end) as male_count,
sum(case when employees.gender='F' then 1 else 0 end) as female_count
from departments join dept_emp
on departments.dept_no=dept_emp.dept_no
join employees
on employees.emp_no=dept_emp.emp_no
group by departments.dept_no,departments.dept_name;
```

Result Grid | Filter Rows: | Export:

dept_no	dept_name	male_count	female_count
d009	Customer Service	14132	9448
d005	Development	51449	34258
d002	Finance	10331	7015
d003	Human Resources	10711	7075
d001	Marketing	12174	8037