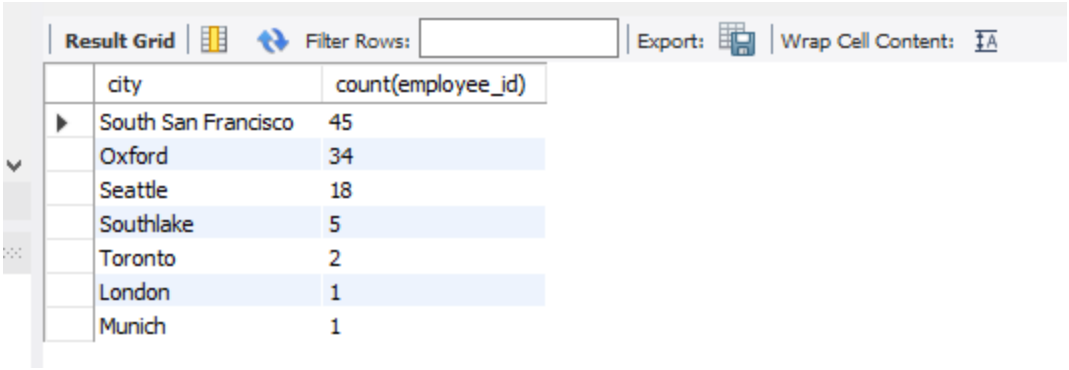
SPRINT 3 : RETRIVE DATA FROM MULTIPLE TABLE (CHALLENGE)

/* Task 1 : Identify the popular cities where most employees like to work */

```
select city,count(employee_id) from employees
inner join departments using(department_id)
inner join locations using(location_id)
group by city
order by 2 desc ;
```

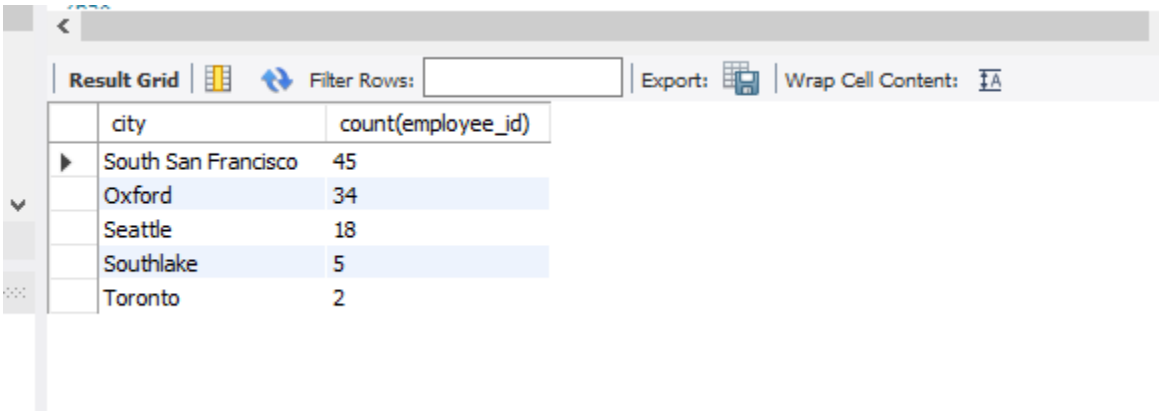


city	count(employee_id)
South San Francisco	45
Oxford	34
Seattle	18
Southlake	5
Toronto	2
London	1
Munich	1

/* Task 2 : Fetch the details first name,last name, country, city, department & department of employees from the top 5 cities identified in task 1 */

```
create view City_Details as
select city,count(employee_id) from employees
inner join departments using(department_id)
inner join locations using(location_id)
group by city
order by 2 desc
limit 5 ;

select * from City_Details;
```



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

city	count(employee_id)
South San Francisco	45
Oxford	34
Seattle	18
Southlake	5
Toronto	2

select first_name,last_name,country_name,city,department_name,salary from employees

inner join departments using(department_id)

inner join locations using(location_id)

inner join countries using(country_id)

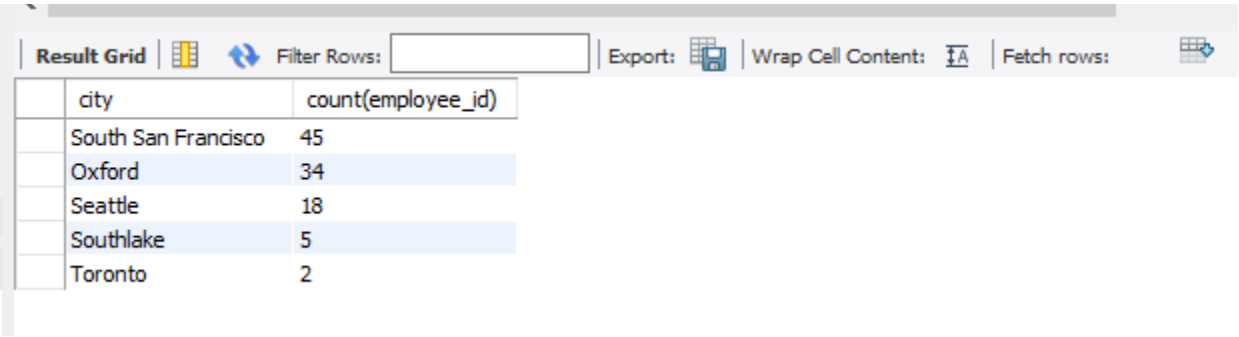
right outer join My_View1 using (city);

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

first_name	last_name	country_name	city	department_name	salary
Michael	Hartstein	Canada	Toronto	Marketing	13000.00
Pat	Fay	Canada	Toronto	Marketing	6000.00
Alexander	Hunold	United States of America	Southlake	IT	9000.00
Bruce	Ernst	United States of America	Southlake	IT	6000.00
David	Austin	United States of America	Southlake	IT	4800.00
Valli	Pataballa	United States of America	Southlake	IT	4800.00
Diana	Lorentz	United States of America	Southlake	IT	4200.00
Matthew	Weiss	United States of America	South San Francisco	Shipping	8000.00
Adam	Fripp	United States of America	South San Francisco	Shipping	8200.00
Payam	Kaufling	United States of America	South San Francisco	Shipping	7900.00
Shanta	Vollman	United States of America	South San Francisco	Shipping	6500.00
Kevin	Mourgos	United States of America	South San Francisco	Shipping	5800.00
Julia	Nayer	United States of America	South San Francisco	Shipping	3200.00
Irene	Mikkilineni	United States of America	South San Francisco	Shipping	2700.00
James	Landry	United States of America	South San Francisco	Shipping	2400.00

/* Task 3 : The HR team wants to identify the top 5 cities which have maximum number of employees */

```
select city,count(employee_id) from employees
inner join departments using(department_id)
inner join locations using(location_id)
group by city
order by 2 desc
limit 5 ;
```

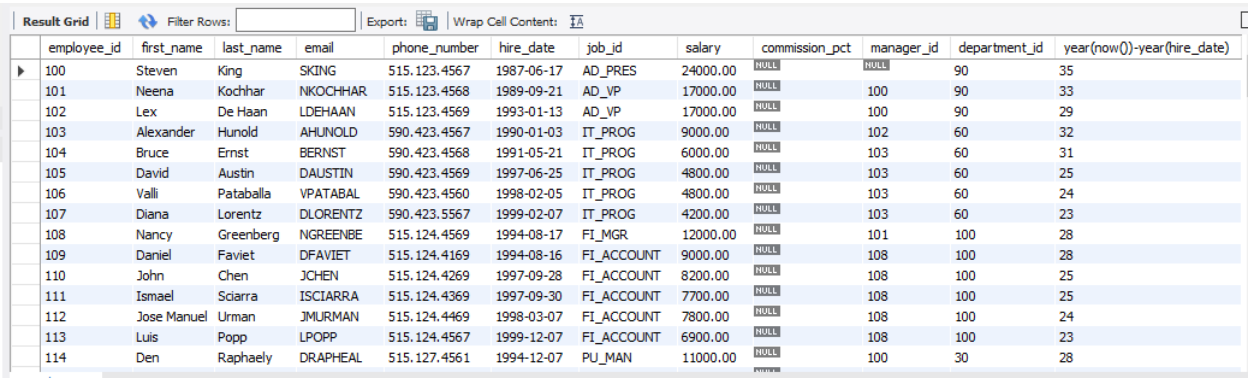


Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

city	count(employee_id)
South San Francisco	45
Oxford	34
Seattle	18
Southlake	5
Toronto	2

/* Task 4 : Identify details of candidates who have completed 10 years in the organization */

```
select *,year(now())-year(hire_date) from employees where (year(now())-year(hire_date))>=10;
```



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

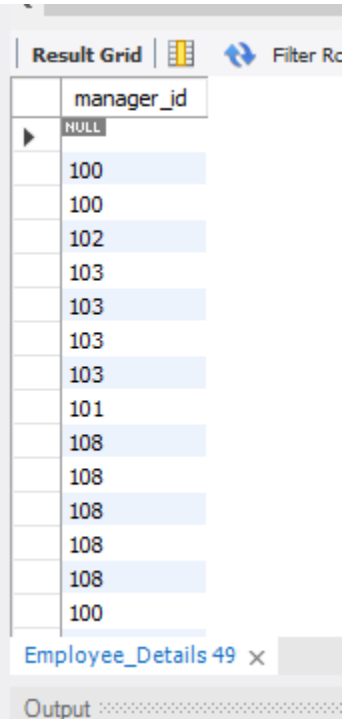
employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id	year(now())-year(hire_date)
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	NULL	NULL	90	35
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-09-21	AD_VP	17000.00	NULL	100	90	33
102	Lex	De Haan	LDEHAAN	515.123.4569	1993-01-13	AD_VP	17000.00	NULL	100	90	29
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	9000.00	NULL	102	60	32
104	Bruce	Ernst	BERNST	590.423.4568	1991-05-21	IT_PROG	6000.00	NULL	103	60	31
105	David	Austin	DAUSTIN	590.423.4569	1997-06-25	IT_PROG	4800.00	NULL	103	60	25
106	Valli	Pataballa	VPATABAL	590.423.4560	1998-02-05	IT_PROG	4800.00	NULL	103	60	24
107	Diana	Lorentz	DLORENTZ	590.423.5567	1999-02-07	IT_PROG	4200.00	NULL	103	60	23
108	Nancy	Greenberg	NGREENBE	515.124.4569	1994-08-17	FI_MGR	12000.00	NULL	101	100	28
109	Daniel	Faviet	DFAVIET	515.124.4169	1994-08-16	FI_ACCOUNT	9000.00	NULL	108	100	28
110	John	Chen	JCHEN	515.124.4269	1997-09-28	FI_ACCOUNT	8200.00	NULL	108	100	25
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1997-09-30	FI_ACCOUNT	7700.00	NULL	108	100	25
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1998-03-07	FI_ACCOUNT	7800.00	NULL	108	100	24
113	Luis	Popp	LPOPP	515.124.4567	1999-12-07	FI_ACCOUNT	6900.00	NULL	108	100	23
114	Den	Raphaely	DRAPHEAL	515.127.4561	1994-12-07	PU_MAN	11000.00	NULL	100	30	28

/* Task 5 : HR wants to know manager name and id for those emloyees who have completed 10 years in the organization */

```
create view Employee_Details as
select manager_id from employees
```

where (year(now())-year(hire_date))>=10;

select * from Employee_Details;



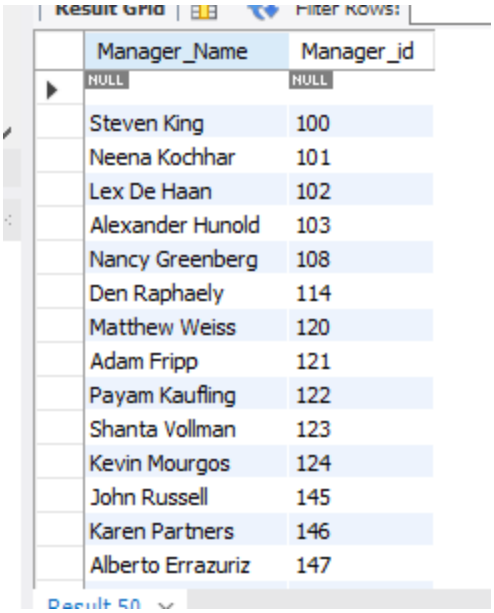
select concat(first_name,' ',last_name) as Manager_Name,employee_id as Manager_id from employees

right outer join Employee_Details

on employees.employee_id=Employee_Details.manager_id

group by manager_id

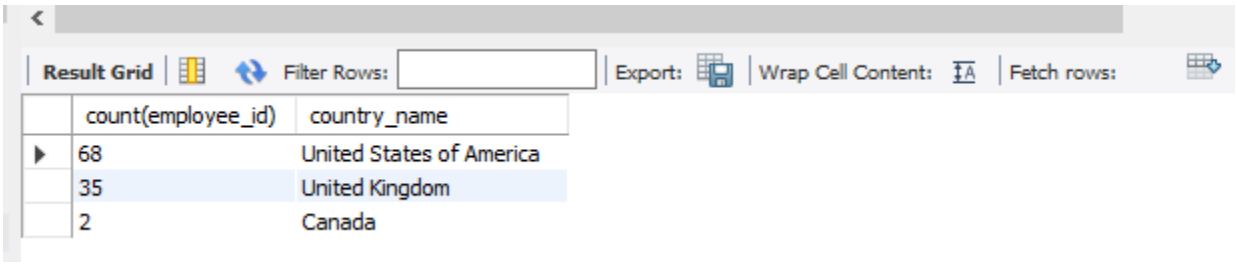
order by manager_id ;



Manager_Name	Manager_id
NULL	NULL
Steven King	100
Neena Kochhar	101
Lex De Haan	102
Alexander Hunold	103
Nancy Greenberg	108
Den Raphaely	114
Matthew Weiss	120
Adam Fripp	121
Payam Kaufling	122
Shanta Vollman	123
Kevin Mourgos	124
John Russell	145
Karen Partners	146
Alberto Errazuriz	147

/* Task 6 : Identify top 3 countries which has the most loyal employees */

```
select count(employee_id),country_name from employees
inner join departments using(department_id)
inner join locations using(location_id)
inner join countries using(country_id)
where (year(now())-year(hire_date))>10
group by country_name
limit 3 ;
```



Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

count(employee_id)	country_name
68	United States of America
35	United Kingdom
2	Canada