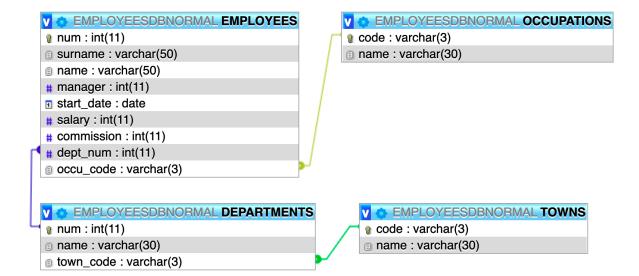
VIEWS



1. Create a view (with name V_DEPARTMENTS) that shows all the departments with their number of employees and their town name.

3

- 2. Update the last view to add a field with the average salary of every department. To alter a view you can check this link: https://mariadb.com/kb/en/library/alter-view/
- 3. Insert a new departments (60 'HUMAN RESOURCES' 'MAD') and a new employee with salary 9000€ who belongs to the new department (9999 'GONZALEZ' 'SERGI' NULL '2019-01-01' 9000 NULL 60 NULL). Check if the data of the view changed automatically. Note that you must insert data into the tables EMPLOYEES and DEPARTMENTS (not into the view).
- 4. Create a view (with name V_EMPLOYEES) that shows all the employees with the name of their occupation name instead of the occupation code and the name of their department instead of the department number.
- 5. Create a view (with name V_EMPLOYEES_FULL) using V_EMPLOYEES that shows manager's surname and name instead of manager num (you can NOT use the table EMPLOYEES you must use the view V_EMPLOYEES).

 5
- 6. Try to update the EMPLOYEE with number 9999 (for instance, try to change his/her surname) using the view V_EMPLOYEES. Did it work?

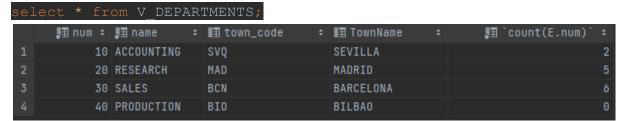
1. Create a view (with name V_DEPARTMENTS) that shows all the departments with their number of employees and their town name.

1. Create view

```
create view V_DEPARTMENTS as select d.num, d.name,
d.town_code, T.name as TownName, count(E.num) from
DEPARTMENTS as d
left outer join TOWNS T on d.town_code = T.code
left outer join EMPLOYEES E on d.num = E.dept_num
group by d.num;

W_VIEWS: create view V_DEPARTMENTS as select d.num, d.name, d.town_code, T.name as TownName, count(E.num) from DEPARTMENTS as d
left outer join TOWNS T on d.town_code = T.code
left outer join EMPLOYEES E on d.num = E.dept_num
group by d.num
[2021-03-17 14:50:00] completed in 277 ms
```

2. Select view

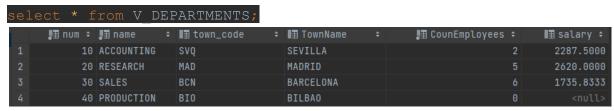


- 2. Update the last view to add a field with the average salary of every department. To alter a view you can check this link: https://mariadb.com/kb/en/library/alter-view/
 - 1. Alter view

```
alter view V DEPARTMENTS as select d.num, d.name,
d.town code, T.name as TownName, count(E.num) as
CounEmployees, avg(E.salary) as salary from DEPARTMENTS as d
left outer join TOWNS T on d.town code = T.code
left outer join EMPLOYEES E on d.num = E.dept num
group by d.num;

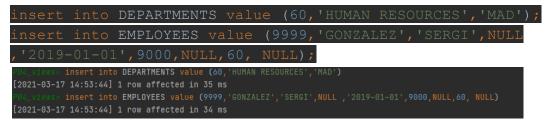
alter view V_DEPARTMENTS as select d.num, d.name, d.town_code, T.name as TownName, count(E.num) as CounEmployees, avg(E.salary) as salary from D
left outer join TOWNS T on d.town_code = T.code
left outer join TOWNS T on d.town_code = T.code
left outer join EMPLOYEES E on d.num = E.dept_num
group by d.num
[2021-03-17 14:51:27] completed in 40 ms
```

2. Select view

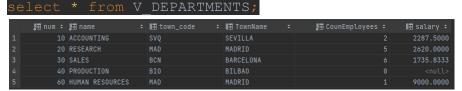


3. Insert a new departments (60 - 'HUMAN RESOURCES' - 'MAD') and a new employee with salary 9000€ who belongs to the new department (9999 - 'GONZALEZ' - 'SERGI' - NULL - '2019-01-01' - 9000 - NULL - 60 - NULL). Check if the data of the view changed automatically. Note that you must insert data into the tables EMPLOYEES and DEPARTMENTS (not into the view).

1. Insert data



2. select view



the view was updated

- 4. Create a view (with name V_EMPLOYEES) that shows all the employees with the name of their occupation name instead of the occupation code and the name of their department instead of the department number.
 - 1. Create view

```
Create view V EMPLOYEES as select

E.num, E.surname, E.name, E.manager, E.start date, E.salary, E.comm
ission, D.name as dept name , O.name as occu name from

EMPLOYEES as E

left outer join OCCUPATIONS O on O.code = E.occu code

left outer join DEPARTMENTS D on D.num = E.dept num;

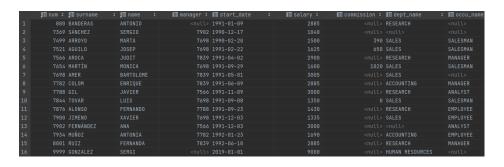
W. Mark Create view V.EMPLOYEES as select E.num, E.surname, E.name, E.manager, E.start_date, E.salary, E.commission, D.name as dep

left outer join OCCUPATIONS O on D.num = E.dept_num

[2021-03-17 14:56:22] completed in 40 ms
```

2. Select view

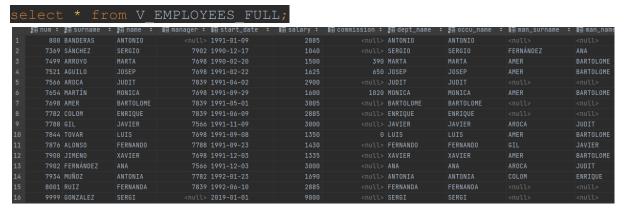
select * from V EMPLOYEES;



5. Create a view (with name V_EMPLOYEES_FULL) using V_EMPLOYEES that shows manager's surname and name instead of manager num (you can NOT use the table EMPLOYEES you must use the view V_EMPLOYEES).

1. Create view

Select view



- 6. Try to update the EMPLOYEE with number 9999 (for instance, try to change his/her surname) using the view V_EMPLOYEES. Did it work?
 - 1. Update view

2. Select view

select *	from V	EMPLOYEES	FULL;				
16 9999 Piña	SERGI	<null> 2019-01-0</null>	9000	<null> SERGI</null>	SERGI	<null></null>	<null></null>