```
1.
create SCHEMA if not exists pandemic;
use pandemic
select * from infectious cases
2.
use pandemic;
SET SQL_SAFE_UPDATES = 0;
create table countries (
id int primary key auto_increment,
code varchar(8) unique,
country varchar(32) not null unique);
insert into countries (code, country)
select distinct code, entity from infectious_cases;
create table infectious_cases_norm
as select * from infectious_cases;
alter table infectious cases norm
add id int primary key auto_increment first,
add country id int after id,
add constraint fk_country_id foreign key (country_id) references countries(id);
Update infectious_cases_norm icn, countries c
set icn.country_id = c.id where c.code = icn.code;
alter table infectious_cases_norm
drop column entity,
drop column code;
SET SQL SAFE UPDATES = 1;
//////SET SQL_SAFE_UPDATES = 0; /// цей рядок знайшла на Stackoverflow, Без нього
падала помилка
Update infectious_cases_norm icn, countries c set icn.country_id = c.id where c.code =
              Error Code: 1175. You are using safe update mode and you tried to update a
table without a WHERE that uses a KEY column. To disable safe mode, toggle the option in
Preferences -> SQL Editor and reconnect. 0.00040 sec /////
3.
use pandemic;
SELECT id, MAX(number_rabies) as max_value, MIN(number_rabies) as min_value,
AVG(number rabies) as avg value from infectious cases norm
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Where number_rabies is not null and number_rabies != ""
group by id
order by avg_value desc
limit 10;
4.
use pandemic;
SET SQL_SAFE_UPDATES = 0;
ALTER TABLE infectious_cases_norm
ADD start_date DATE NULL AFTER year,
ADD curr_date DATE NULL AFTER start_date,
ADD subtract_year INT NULL AFTER curr_date;
drop function if exists fn_start_date;
delimiter //
create function fn_start_date(year int)
returns date
deterministic
no sql
begin
declare result date;
set result = MAKEDATE(year,1);
return result;
end //
delimiter;
drop function if exists fn_curr_date;
delimiter //
create function fn_curr_date()
returns date
deterministic
no sql
begin
declare result date;
set result = CURDATE();
return result;
end //
delimiter;
```

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drop function if exists fn_subtract_year;
delimiter //
create function fn subtract year(curr date date, start date date)
returns int
deterministic
no sql
begin
declare result int;
set result=year(curr_date)-year(start_date);
return result;
end //
delimiter;
UPDATE infectious_cases_norm
set
curr_date = fn_curr_date(),
start_date = fn_start_date(year),
subtract_year = fn_subtract_year(curr_date, start_date);
SET SQL_SAFE_UPDATES = 1;
5.
use pandemic;
drop function if exists fn_subtract_this_year;
DELIMITER //
create function fn_subtract_this_year(year INT)
returns int
deterministic
no sql
begin
declare result INT;
set result = year(CURDATE()) - year;
return result;
end //
DELIMITER;
select fn_subtract_this_year(1996);
```