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1.1. create schema pandemic;
1.2. use pandemic;
2.1. create table countries (
id int primary key auto_increment,
country_name varchar(40),
country_code varchar(10)
);
2.2. insert into countries (country_name, country_code)
select distinct entity, code from infectious_cases;
2.3. create table infectious_cases_normalized (
  id int primary key auto_increment,
  country_id int not null,
 year int,
  number_yaws text,
  polio_cases int,
  cases_guinea_worm int,
  number_rabies varchar(45),
  number_malaria varchar(45),
  number_hiv varchar(45),
  number_tuberculosis varchar(45),
  number_smallpox varchar(45),
  number_cholera_cases varchar(45),
  foreign key (countries_id) references countries(id)
);
2.4. insert into infectious_cases_normalized (
  country_id,
 year,
  number_yaws,
  polio_cases,
  cases_guinea_worm,
  number_rabies,
  number_malaria,
```

```
number_hiv,
  number_tuberculosis,
  number_smallpox,
  number_cholera_cases
select distinct
countries.id,
year,
number_yaws,
polio_cases,
cases_guinea_worm,
number_rabies,
number_malaria,
number_hiv,
number_tuberculosis,
number_smallpox,
number_cholera_cases
from infectious_cases
inner join countries
on countries.country_code = infectious_cases.Code
and countries.country_name = infectious_cases.Entity;
3. select Entity, Code,
round(min(Number_rabies), 5) as min_rabies,
round(max(Number_rabies), 5) as max_rabies,
round(avg(Number_rabies), 5) as average_rabies,
round(sum(Number_rabies), 5) as total_rabies
from infectious_cases
where Number_rabies is not null and Number_rabies != "
group by Entity, Code
order by average_rabies desc
limit 10;
4. alter table infectious_cases_normalized
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add column full_date date,
add column curr_date date,
add column difference int;
SET SQL_SAFE_UPDATES = 0;
update infectious_cases_normalized
set full_date = makedate(year, 1),
       curr_date = curdate(),
       difference = timestampdiff(year, makedate(year, 1), curdate())
  where year is not null;
SET SQL_SAFE_UPDATES = 1;
5. drop function if exists getDateDifference;
DELIMITER //
create function getDateDifference(year int)
returns int
no sql
begin
declare res int;
set res = timestampdiff(year, makedate(year, 1), curdate());
return res;
end //
DELIMITER;
alter table infectious_cases
add column difference int;
SET SQL_SAFE_UPDATES = 0;
update infectious_cases
set
difference = getDateDifference(Year);
SET SQL_SAFE_UPDATES = 1;
```