CREATE SCHEMA pandemic;

use pandemic;

2.

*Створюю нову табличку з даними країни та переношу в нії дані з ненормалізованої таблиці infectious\_cases*

create table country (id INT auto\_increment primary key, country varchar(50), country\_code varchar(10));

Insert into country (country, country\_code) Select distinct Entity, Code from infectious\_cases;

*Створюю нову нормалізовану табличку* infectious\_cases\_norm *та переношу в нії дані з ненормалізованої таблиці infectious\_cases та дані* country\_id з нормалізованої таблиці country

CREATE TABLE `infectious\_cases\_norm` (

`country\_id` int NOT NULL,

`Year` int DEFAULT NULL,

`Number\_yaws` text,

`polio\_cases` text,

`cases\_guinea\_worm` text,

`Number\_rabies` text,

`Number\_malaria` text,

`Number\_hiv` text,

`Number\_tuberculosis` text,

`Number\_smallpox` text,

`Number\_cholera\_cases` text

);

insert into infectious\_cases\_norm (`country\_id`,

`Year`,

`Number\_yaws`,

`polio\_cases`,

`cases\_guinea\_worm`,

`Number\_rabies`,

`Number\_malaria`,

`Number\_hiv`,

`Number\_tuberculosis`,

`Number\_smallpox`,

`Number\_cholera\_cases`)

select c.id,

i.`Year`,

i.`Number\_yaws`,

i.`polio\_cases`,

i.`cases\_guinea\_worm`,

i.`Number\_rabies`,

i.`Number\_malaria`,

i.`Number\_hiv`,

i.`Number\_tuberculosis`,

i.`Number\_smallpox`,

i.`Number\_cholera\_cases` from infectious\_cases i join country c on c.country = i.Entity and c.country\_code = i.Code;

3.

SELECT country\_id, min(Number\_rabies) as min\_cases, max(Number\_rabies) as max\_cases, avg(Number\_rabies) as avg\_cases,

sum(Number\_rabies) as sum\_cases

FROM pandemic.infectious\_cases\_norm

WHERE LENGTH(Number\_rabies) > 0

GROUP BY country\_id

ORDER BY avg\_cases DESC

LIMIT 10;

4. SELECT country\_id, `Year`, MAKEDATE(`Year`, 1) as `data`, NOW() as current\_data, TIMESTAMPDIFF(YEAR,MAKEDATE(`Year`, 1),NOW()) as difference\_years

FROM pandemic.infectious\_cases\_norm;

5. Використала інший спосіб підрахунку року

DROP FUNCTION IF EXISTS CalculateYearDiffs;

DELIMITER //

CREATE FUNCTION CalculateYearDiffs(current\_d Date, date\_in\_past Date)

RETURNS Int

DETERMINISTIC

NO SQL

BEGIN

DECLARE result Int;

SET result = TIMESTAMPDIFF(YEAR, date\_in\_past, current\_d);

RETURN result;

END //

DELIMITER ;

SELECT country\_id, `Year`, MAKEDATE(`Year`, 1) as `data`, NOW() as current\_data,

CalculateYearDiffs(NOW(), MAKEDATE(`Year`, 1)) as difference\_years

FROM pandemic.infectious\_cases\_norm;