```
P1 1
CREATE SCHEMA 'pandemic';
P1 2
USE pandemic;
SELECT * FROM pandemic.infectious cases;
P2 1
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;
SELECT * FROM pandemic.country;
P2 2
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;
SELECT * FROM pandemic.infectious cases norm;
P3 1
SELECT country id,
AVG(number rabies) AS avg number rabies,
MIN(number rabies) AS min number rabies,
MAX(number rabies) AS max number rabies,
SUM(number rabies) AS sum number rabies
FROM infection statistics
WHERE number rabies != "
GROUP BY country id;
P3 2
SELECT country id,
AVG(number rabies) AS avg number rabies,
MIN(number rabies) AS min number rabies,
MAX(number rabies) AS max number rabies,
SUM(number rabies) AS sum number rabies
FROM infection statistics
```

WHERE number_rabies != "
GROUP BY country_id
ORDER BY avg_number_rabies DESC;

P3 3

SELECT country_id,
AVG(number_rabies) AS avg_number_rabies,
MIN(number_rabies) AS min_number_rabies,
MAX(number_rabies) AS max_number_rabies,
SUM(number_rabies) AS sum_number_rabies
FROM infection_statistics
WHERE number_rabies != "
GROUP BY country_id
ORDER BY avg_number_rabies DESC
LIMIT 10;

P4

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;

```
P5 1
USE pandemic;
DROP FUNCTION IF EXISTS difference years;
DELIMITER //
CREATE FUNCTION difference years(year INT)
RETURNS int
DETERMINISTIC
NO SQL
BEGIN
     DECLARE result INT;
  SET result = YEAR(CURDATE()) - year;
  RETURN result;
END //
DELIMITER;
SELECT difference years(1996);
P5 2
DROP FUNCTION IF EXISTS calc illnesses;
DELIMITER //
CREATE FUNCTION calc illnesses(num illnesses per year DOUBLE, period
INT)
RETURNS DOUBLE
DETERMINISTIC
NO SQL
BEGIN
  DECLARE result DOUBLE;
  SET result = num illnesses per year / period;
  RETURN result;
```

```
END //
DELIMITER;
SELECT calc_illnesses(6000, 12);
```