-- Patient Diagnosis Report --

drop table patients;

CREATE TABLE patients (

`date` DATETIME,

patient\_id VARCHAR(6) PRIMARY KEY,

patient\_name VARCHAR(100) NOT NULL,

age INT,

weight FLOAT,

gender VARCHAR(10),

location VARCHAR(100),

phone\_number INT,

disease VARCHAR(100),

doctor\_name VARCHAR(100),

doctor\_id INT

);

INSERT INTO patients VALUES ('2019-06-15 00:00:00','AP2021','Sarath',67,76,'Male','chennai',5462829,'Cardiac','Mohan',21),

('2019-02-13 00:00:00','AP2022','John',62,80,'Male','banglore',1234731,'Cancer','Suraj',22),

('2018-01-08 00:00:00','AP2023','Henry',43,65,'Male','Kerala',9028320,'Liver','Mehta',23),

('2020-02-04 00:00:00','AP2024','Carl',56,72,'Female','Mumbai',9293829,'Asthma','Karthik',24),

('2017-09-15 00:00:00','AP2025','Shikar',55,71,'Male','Delhi',7821281,'Cardiac','Mohan',21),

('2018-07-22 00:00:00','AP2026','Piysuh',47,59,'Male','Haryana',8912819,'Cancer','Suraj',22),

('2017-03-25 00:00:00','AP2027','Stephen',69,55,'Male','Gujarat',8888211,'Liver','Mehta',23),

('2019-04-22 00:00:00','AP2028','Aaron',75,53,'Male','Banglore',9012192,'Asthma','Karthik',24);

select \* from patients;

-- Write a query to display the total number of patients in the table --

select count(\*) as totalnumber\_patients from patients;

-- Write a query to display the patient id, patient name, gender, and disease of the patient whose age is maximum --

SELECT patient\_id, patient\_name, gender, disease

FROM patients

WHERE age = (SELECT MAX(age) FROM patients);

-- Write a query to display patient id and patient name with the current date --

select patient\_id, patient\_name from patients where date = (curdate());

-- Write a query to display the old patient’s name and new patient's name in uppercase--

SELECT

UPPER(MAX(CASE WHEN date = (SELECT MIN(date) FROM patients) THEN patient\_name END)) AS old\_patients\_name,

UPPER(MAX(CASE WHEN date = (SELECT MAX(date) FROM patients) THEN patient\_name END)) AS new\_patients\_name

FROM patients;

-- Write a query to display the patient’s name along with the length of their name --

select patient\_name, length(patient\_name) from patients;

-- Write a query to display the patient’s name, and the gender of the patient must be mentioned as M or F --

select patient\_name, if( gender = 'Male','M','F') as Gender from patients;

-- Write a query to combine the names of the patient and the doctor in a new column --

SELECT CONCAT(patient\_name, ' - ', doctor\_name) AS patient\_doctor\_combined

FROM patients;

-- Write a query to display the patients’ age along with the logarithmic value (base 10) of their age --

SELECT age, LOG10(age) AS log\_age

FROM patients;

-- Write a query to extract the year from the given date in a separate column --

SELECT date, YEAR(date) AS year\_column

FROM patients;

-- Write a query to return NULL if the patient’s name and doctor’s name are similar else return the patient’s name --

SELECT

CASE WHEN patient\_name = doctor\_name THEN NULL ELSE patient\_name END AS result

FROM patients;

-- Write a query to return Yes if the patient’s age is greater than 40 else return No --

select age, if( age>= 40, 'Yes', 'No') from patients;

-- Write a query to display the doctor’s duplicate name from the table --

SELECT doctor\_name

FROM patients

GROUP BY doctor\_name

HAVING COUNT(\*) > 1;