create table employee(

emp\_id INT PRIMARY KEY AUTO\_INCREMENT,

emp\_name varchar(355),

address varchar(355),

city varchar(255),

state varchar(255)

);

select \* from employee;

INSERT INTO Employee (emp\_name, address, city, state)

VALUES

("Ravi", "XYZ Colony", "Raipur", "Chhattisgarh"),

("neha", "ABC Street", "Bilaspur", "Chhattisgarh"),

("Raju", "PQR Lane", "Dehradun", "Uttarakhand"),

("kanika", "LMN Road", "Haridwar", "Uttarakhand"),

("Raju", "DEF Avenue", "Kolkata", "West Bengal"),

("starc", "GHI Plaza", "Durgapur", "West Bengal"),

("johnson", "JKL Tower", "Bhubaneswar", "Odisha"),

("Phillips", "MNO Complex", "Cuttack", "Odisha"),

("Vikas", "UVW Street", "Raigarh", "Chhattisgarh"),

("Klasen", "XYZ Colony", "Roorkee", "Uttarakhand"),

("Rohit", "ABC Street", "Howrah", "West Bengal"),

("bumrah", "PQR Lane", "Rourkela", "Odisha"),

("Sushant", "LMN Road", "Jagdalpur", "Chhattisgarh"),

("Sam", "DEF Avenue", "Nainital", "Uttarakhand"),

("Arjun", "GHI Plaza", "Asansol", "West Bengal"),

("Anjan", "JKL Tower", "Puri", "Odisha"),

("yogi", "MNO Complex", "Bilaspur", "Chhattisgarh"),

("modi", "UVW Street", "Dehradun", "Uttarakhand"),

("Raja", "XYZ Colony", "Kolkata", "West Bengal"),

("Sweta", "ABC Street", "Cuttack", "Odisha"),

("Gaurav", "PQR Lane", "Raipur", "Chhattisgarh"),

("Kirti", "LMN Road", "Haridwar", "Uttarakhand"),

("Amit", "DEF Avenue", "Howrah", "West Bengal"),

("Nisha", "GHI Plaza", "Bhubaneswar", "Odisha"),

("Alok", "JKL Tower", "Jagdalpur", "Chhattisgarh"),

("Pallavi", "MNO Complex", "Roorkee", "Uttarakhand"),

("Prateek", "UVW Street", "Kolkata", "West Bengal"),

("Shreya", "XYZ Colony", "Puri", "Odisha"),

("Vishal", "ABC Street", "Raigarh", "Chhattisgarh"),

("Komal", "PQR Lane", "Nainital", "Uttarakhand"),

("Rahul", "LMN Road", "Asansol", "West Bengal"),

("Sheetal", "DEF Avenue", "Rourkela", "Odisha"),

("Avinash", "GHI Plaza", "Bilaspur", "Chhattisgarh"),

("Kiran", "JKL Tower", "Dehradun", "Uttarakhand"),

("Varun", "MNO Complex", "Kolkata", "West Bengal"),

("Anamika", "UVW Street", "Cuttack", "Odisha"),

("Abhishek", "XYZ Colony", "Raipur", "Chhattisgarh"),

("Aarti", "ABC Street", "Haridwar", "Uttarakhand"),

("Ravi", "PQR Lane", "Howrah", "West Bengal"),

("Sweta", "LMN Road", "Bhubaneswar", "Odisha"),

("Sumit", "DEF Avenue", "Jagdalpur", "Chhattisgarh"),

("Deepika", "GHI Plaza", "Roorkee", "Uttarakhand"),

("Rohan", "JKL Tower", "Kolkata", "West Bengal"),

("Soniya", "MNO Complex", "Puri", "Odisha"),

("Amar", "UVW Street", "Raigarh", "Chhattisgarh"),

("Nidhi", "XYZ Colony", "Nainital", "Uttarakhand"),

("Arun", "ABC Street", "Asansol", "West Bengal"),

("Preeti", "PQR Lane", "Rourkela", "Odisha"),

("Vivek", "LMN Road", "Bilaspur", "Chhattisgarh"),

("Madhu", "DEF Avenue", "Dehradun", "Uttarakhand");

create table department(

dept\_id int Primary Key auto\_increment,

dept\_name varchar(355));

select \* from department;

insert into department(dept\_name)

values

("Human Resources"),

("Finance and Accounting"),

("Sales and Marketing"),

("Information Technology"),

("Operations"),

("Customer Service and Support");

create table salary\_heads(

head\_id int Primary key auto\_increment,

head\_name varchar(355),

head\_type varchar(30));

select \* from salary\_heads;

drop table salary\_heads;

insert into salary\_heads(head\_name, head\_type)

values

("Conv","Earn"),

("PF","Earn"),

("WF","Ded");

create table data(

emp\_id int ,

dept\_id int,

head\_id int,

year int,

month int,

Amount int,

FOREIGN KEY (emp\_id) REFERENCES employee(emp\_id),

FOREIGN KEY (dept\_id) REFERENCES department(dept\_id),

FOREIGN KEY (head\_id) REFERENCES salary\_heads(head\_id)

);

select \* from data;

drop table data;

DELIMITER //

CREATE PROCEDURE insert\_data\_with\_while\_loop()

BEGIN

DECLARE i INT DEFAULT 1;

DECLARE j INT;

DECLARE k INT;

DECLARE random\_dept\_id INT;

-- Loop condition

WHILE i <= 10 DO

-- Loop body

SET j = 1;

SET random\_dept\_id = FLOOR(RAND() \* 6) + 1; -- Assign random department ID between 1 and 6

WHILE j <= 12 DO

SET k = 1;

WHILE k <= 3 DO

INSERT INTO data (emp\_id, dept\_id, head\_id, year, month, Amount)

VALUES (

i,

random\_dept\_id,

k, -- Assuming a default head\_id of 1

2023, -- Year 2022

j, -- Month

FLOOR(RAND() \* 100000) -- Random Amount

);

SET k = k + 1;

END WHILE;

SET j = j + 1;

END WHILE;

-- Increment counter

SET i = i + 1;

END WHILE;

END //

DELIMITER ;

-- Call the stored procedure

CALL insert\_data\_with\_while\_loop();

DROP PROCEDURE IF EXISTS insert\_data\_with\_while\_loop;

-- SUM of all the amount paid

select sum(amount) from data

where year = 2023 or year = 2022;

SELECT emp\_id, sum(amount)

FROM data

WHERE year = 2023 and head\_id = (SELECT head\_id FROM salary\_heads WHERE head\_name = 'PF')

group by emp\_id;

SELECT head\_id, sum(amount)

FROM data

group by head\_id;

SELECT dept\_id, MAx(amount) AS total\_amount

FROM data join employee

WHERE head\_id = (SELECT head\_id FROM salary\_heads WHERE head\_name = 'Conv')

GROUP BY dept\_id;

SELECT e.emp\_name, d.dept\_id, MAX(d.amount) AS total\_amount

FROM data d

JOIN employee e ON d.emp\_id = e.emp\_id

WHERE d.head\_id = (SELECT head\_id FROM salary\_heads WHERE head\_name = 'Conv')

GROUP BY e.emp\_name, d.dept\_id;

select dept\_id,sum(amount) from data where head\_id = (

(select head\_id from salary\_heads where head\_name = "WF")) and year = 2023

group by dept\_id;