**DESIGN DB MODEL FOR GUVI ZEN CLASS**

-- create database zen\_class;

use zen\_class;

**-- master data 1**

create table users(

user\_id integer auto\_increment primary key,

user\_name varchar (255),

email varchar (255),

createdAt datetime,

batch integer

);

-- to view table

select \* from users;

-- to insert table data

INSERT INTO users (user\_name, email, createdAt, batch)

VALUES ('karthik','karthi@gmail.com',CURRENT\_TIMESTAMP(),1),

('gayu','gayu@gmail.com',CURRENT\_TIMESTAMP(),2),

('maha','maha@gmail.com',CURRENT\_TIMESTAMP(),3),

('mugilan','mugil@gmail.com',CURRENT\_TIMESTAMP(),4),

('iniya','iniya@gmail.com',CURRENT\_TIMESTAMP(),5);

-- if u want to delete only table data use this query

delete from users where user\_id in(1,2,3,4,5);

-- if u have to refer another foreign key

alter table users

add foreign key (batch) references batch\_data (batch\_id);

-- create table codeketa

create table codeketa(

code\_id integer auto\_increment primary key,

user\_id integer,

number\_of\_problem integer,

status\_problem varchar(255),

FOREIGN KEY (user\_id) REFERENCES users(user\_id)

);

delete from codeketa where code\_id in(6,7,8,9,10);

select \* from codeketa;

drop table codeketa;

INSERT INTO codeketa( user\_id,number\_of\_problem,status\_problem) VALUES

(6,20,'pending'),

( 6,20,'finished'),

(7,40,'finished'),

(7,40,'finished'),

(8,50,'finished');

select \* from codeketa;

delete from codeketa where code\_id in(2,3,4,5);

delete from users where user\_id in(1,2,3,4,5);

DELETE FROM codeketa;

-- Primary keys must contain UNIQUE values, and cannot contain NULL values.

-- The table with the foreign key is called the child table, and

-- the table with the primary key is called the referenced or parent table.

-- company\_drives

CREATE TABLE company\_drives (

drive\_id INTEGER AUTO\_INCREMENT PRIMARY KEY,

user\_id INTEGER,

drive\_date DATE,

company VARCHAR(100),

FOREIGN KEY (user\_id) REFERENCES users(user\_id)

);

INSERT INTO company\_drives(user\_id, drive\_date, company) VALUES

(6,makedate(2024, 3), "Apple"),

(6,makedate(2024, 5), "Amazon"),

(7,makedate(2024, 3), "Zomato"),

(7,makedate(2023, 12), "Flipkart"),

(8,makedate(2023,5), "TCS");

select \* from company\_drives;

delete from company\_drives where user\_id in(1,2,3,4,5);

**-- master data 2**

CREATE TABLE batch\_data(

batch\_id int auto\_increment primary key,

batch\_name varchar(100)

);

insert into batch\_data(batch\_name)values

('full stack-2023'),

('full stack-2023'),

('html-2023'),

('css-2023'),

('mongodb-2023');

select \* from batch\_data;

alter table batch\_data

add foreign key (batch\_id)references users(batch);

-- inner join table-common value

SELECT users.batch,batch\_data.batch\_id

FROM users

INNER JOIN batch\_data on users.batch = batch\_data.batch\_id;

-- mentor

CREATE TABLE mentors (

mentorid INTEGER AUTO\_INCREMENT PRIMARY KEY,

mentorname VARCHAR(100),

mentoremail VARCHAR(100)

);

INSERT INTO mentors(mentorname, mentoremail) VALUES

("Surya", "suryakumar@gmail.com"),

("Viji" , "vijay@gmail.com"),

("arun","arun@gmail.com"),

("prabhu" ,"prabhu@gmail.com");

INSERT INTO mentors(mentorname, mentoremail) VALUES

("naga","naga@gmail.com");

select \* from mentors;

-- create table topics

CREATE TABLE topics (

topicid INTEGER AUTO\_INCREMENT PRIMARY KEY,

topic VARCHAR(200),

topic\_date DATE,

mentor\_id integer,

FOREIGN KEY (mentor\_id) REFERENCES mentors(mentorid)

);

INSERT INTO topics(topic, topic\_date, mentor\_id) VALUES

("HTML - Basics", "2023-04-01", 1),

("NodeJS - Basics", "2023-06-03", 2),

("JavaScript - Basics", "2023-07-05", 3),

("React - Basics", "2023-08-06", 4),

("mysql -Basic","2023-09-5",5);

select \* from topics;

-- tasks:

CREATE TABLE tasks (

taskid INTEGER AUTO\_INCREMENT PRIMARY KEY,

topic\_id integer,

task VARCHAR(1000),

batch\_id INTEGER,

FOREIGN KEY (topic\_id) REFERENCES topics(topicid)

);

INSERT INTO tasks(topic\_id, task, batch\_id)VALUES

(1, "HTML Task", 1),

(2, "Javascript Task", 2),

(3, "React Task",3),

(4, "NodeJs Task",4),

(5, "Mysql task",5);

select \* from tasks;

-- attendance table

CREATE TABLE attendance (

attendanceid INTEGER AUTO\_INCREMENT PRIMARY KEY,

user\_id integer,

topicsid INTEGER,

attended BOOLEAN,

FOREIGN KEY ( user\_id) REFERENCES users( user\_id),

FOREIGN KEY (topicsid) REFERENCES topics(topicid)

);

INSERT INTO attendance( user\_id, topicsid, attended) VALUES

(6, 3, true),

(6, 1, true),

(7, 2, false),

(7, 4, true),

(8, 4, true);

select \* from attendance;

