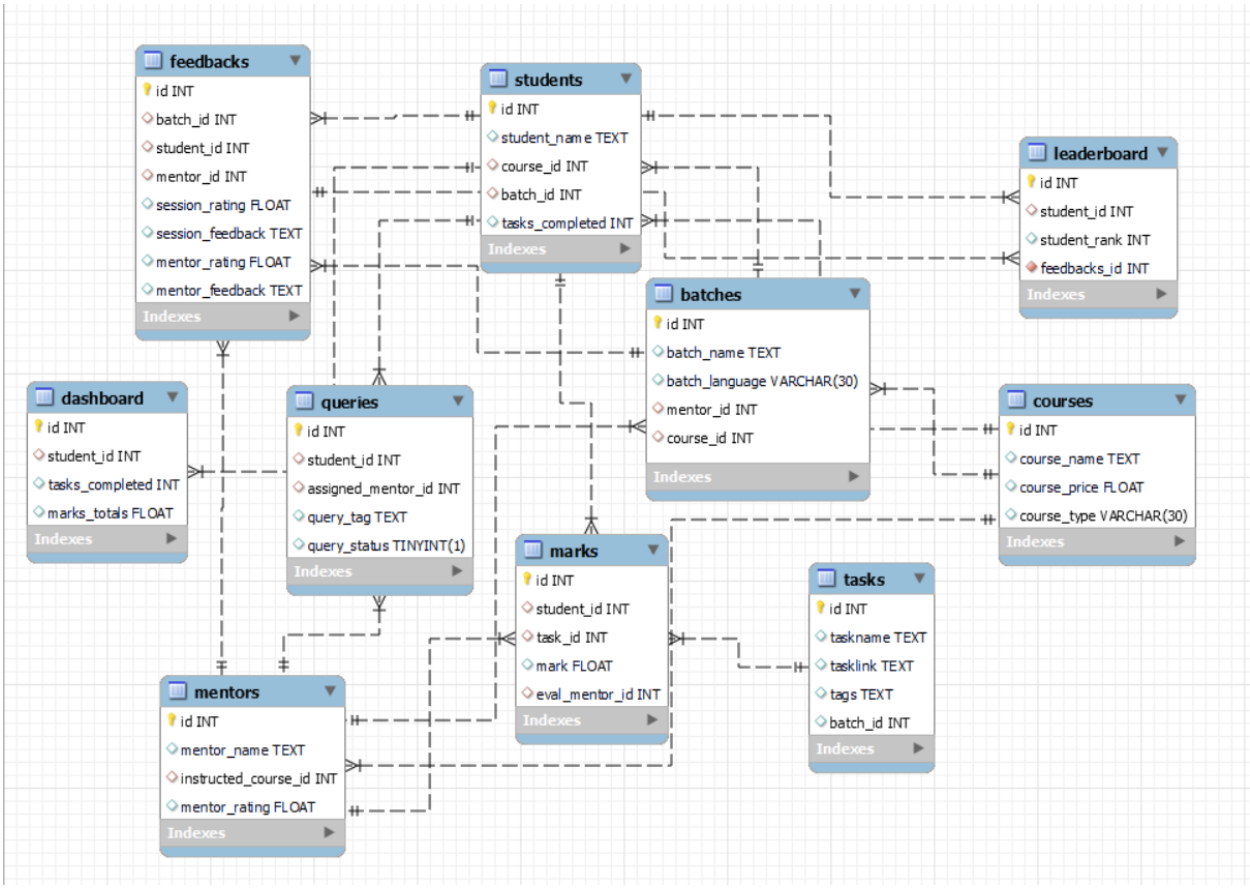
SQL DAY 2 – DB MODEL

ZEN CASS EER DIAGRAM



TABLES:

1. STUDENTS
2. DASHBOARD
3. COURSES
4. BATCHES
5. MENTORS
6. TASKS
7. MARKS
8. LEADERBOARD
9. QUERIES
10. FEEEDBACKS

SQL SCRIPT :

```
CREATE DATABASE zen_class;

USE zen_class;

CREATE TABLE tasks (
   id INt PRIMARY KEY AUTO_INCREMENT,
   taskname TEXT,
   tasklink TEXT,
   tags TEXT,
   batch_id INT
);

DESCRIBE tasks;

CREATE TABLE courses (
   id INT PRIMARY KEY AUTO_INCREMENT,
   course_name TEXT,
   course_price FLOAT,
   course_type VARCHAR(30)
);

DESCRIBE courses;

CREATE TABLE mentors (
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    id INT PRIMARY KEY AUTO_INCREMENT,
    mentor_name TEXT,
    instructed_course_id INT,
    FOREIGN KEY (instructed_course_id) REFERENCES courses(id),
    mentor_rating FLOAT
);

DESCRIBE mentors;

CREATE TABLE batches (
    id INT PRIMARY KEY AUTO_INCREMENT,
    batch_name TEXT,
    batch_language VARCHAR(30),
    mentor_id INT,
    FOREIGN KEY (mentor_id) REFERENCES mentors(id),
    course_id int,
    FOREIGN KEY (course_id) REFERENCES courses(id)
);

DESCRIBE batches;

CREATE TABLE marks (
    id INT PRIMARY KEY AUTO_INCREMENT,
    student_id INT,
    task_id INT,
    mark FLOAT,
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    eval_mentor_id INT,
    FOREIGN KEY (task_id) REFERENCES tasks(id),
    FOREIGN KEY (eval_mentor_id) REFERENCES mentors(id)
);

DESCRIBE marks;

CREATE TABLE students (
    id INT PRIMARY KEY AUTO_INCREMENT,
    student_name TEXT,
    course_id INT,
    batch_id INT,
    tasks_completed INT,
    FOREIGN KEY (course_id) REFERENCES courses(id),
    FOREIGN KEY (batch_id) REFERENCES batches(id)
);

ALTER TABLE marks ADD FOREIGN KEY (student_id) REFERENCES students(id);

DESCRIBE students;

DESCRIBE marks;

CREATE TABLE  dashboard (
    id INT PRIMARY KEY AUTO_INCREMENT,
    student_id INT,
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    tasks_completed INT,
    marks_totals FLOAT,
    FOREIGN KEY (student_id) REFERENCES students(id)
);

DESCRIBE dashboard;

CREATE TABLE leaderboard (
    id INT PRIMARY KEY AUTO_INCREMENT,
    student_id INT,
    student_rank INT,
    FOREIGN KEY (student_id) REFERENCES students(id)
);

DESCRIBE leaderboard;

CREATE TABLE queries (
    id INT PRIMARY KEY AUTO_INCREMENT,
    student_id INT,
    assigned_mentor_id INT,
    query_tag TEXT,
    query_status TINYINT,
    FOREIGN KEY (student_id) REFERENCES students(id),
    FOREIGN KEY (assigned_mentor_id) REFERENCES mentors(id)
);
```

```
DESCRIBE queries;

CREATE TABLE feedbacks (
   id INT PRIMARY KEY AUTO_INCREMENT,
   batch_id INT,
   student_id INT,
   mentor_id INT,
   session_rating FLOAT,
   session_feedback TEXT,
   mentor_rating FLOAT,
   mentor_feedback TEXT,
   FOREIGN KEY (batch_id) REFERENCES batches(id),
   FOREIGN KEY (student_id) REFERENCES students(id),
   FOREIGN KEY (mentor_id) REFERENCES mentors(id)
);

DESCRIBE feedbacks;

SHOW TABLES from zen_class;
```