

Register no: 927623BAD086

Name: Priyanka P

Email: priyankapanneerselvam29@gmail.com

Ph.no: 9444416939

Sites.google.com: -

GitHub: <https://github.com/priyankapanneer>

Portfolio: -

Leet code: https://leetcode.com/u/priyankapanneer__29/

EMPLOYEE ATTENDANCE AND LEAVE APPROVAL SYSTEM

WORK TRACK

Contribution: Full project

Table Name:

Employees

Attendance

Leave requests

Keywords:

Relation - Employees

Domain – Human resource management

Attribute – employee id, name, email, role, password, date of joining

Constraint– Null constraint, Primary Key, Foreign Key, **Composite Key**

Tuple – Employees, attendance, leave_requests

Normalization: Integrity, redundancy

- 1NF
- 2NF
- 3NF
- 4NF
- 5NF

Employees (Master table)

Attendance

Leave requests (Transaction table)

1NF – employees, there is a column name - employee id, which is primary key.

2NF – No partial dependency – employees

3NF – No transitive partial dependency.

Example: Student info – student id, name, job id, job name, native place id, native place.

1NF

Student id can be the primary key. Hence 1NF

2NF

Student role table – student id, job id

Student table – student id, name, native id, native place

Job table – job id, job name

3NF

Student role table – student id, job id

Student table – student id, name, native id

Job table – job id, job name

Native table – native id, native name

Create:

```
CREATE TABLE employee (  
    Employee id INT AUTO_INCREMENT PRIMARY KEY,  
    name VARCHAR (100),  
    email VARCHAR (100) UNIQUE,  
    role ENUM ('employee', 'admin') NOT NULL,  
    date_of_joining DATE,  
    password VARCHAR (255)  
);
```

Insert:

```
INSERT INTO employee (name, email, role, date of joining, password)  
VALUES ('Priyanka', 'priyanka@gmail.com', 'employee', '2024-06-01', 'hashed_pwd123');
```

Delete:

```
DELETE FROM employee WHERE employee id = 101;
```

Joins:

```
SELECT  
    e.employee_id,  
    e.name,  
    l.request_id,
```

```
l.from_date,  
l.to_date,  
l.reason,  
l.status,  
l.submitted_at  
FROM  
employee e  
JOIN  
leave_requests l ON e.employee_id = l.employee_id  
ORDER BY  
l.submitted_at DESC;
```

DTD

CDATA – Character Data

PCDATA – Parsed Character Data

XML

```
<login timeout = "10"></login>
```

DTD

```
<!ELEMENT login EMPTY>
```

```
<!ATTLIST login timeout CDATA "0">
```

FRONT END:

- HTML
- CSS
- Tailwind CSS
- REACT JS
- FLASK

BACK END:

- MySQL
- ORACLE,
- JSON,
- MANGODB (no SQL)

LANGUAGE;

- PYTHON
- PHP

FRAMEWORK:

- XAMPP

APP DEVELOPER:

FRONTEND:

- Android
- Flutter

BACKEND:

- SQL lite
- Firebase

FULL STACK AI ENGINEER:

X AI

MODULE NAME	SUB MODULE NAME	DESCRIPTION
Attendance	Check-in, Check - out	The registered user logins and check in at the start of day and check out when their office ours completed

SUB MODULE NAME	FORM NAME	DESCRIPTION	TABLE NAME	TABLE DESCRIPTION
User management module	Register(php)	Allows users (Admin/Employee) to register and login. Handles authentication and role-based access.	employees	Stores user details like name, email, role, password, and date of joining.