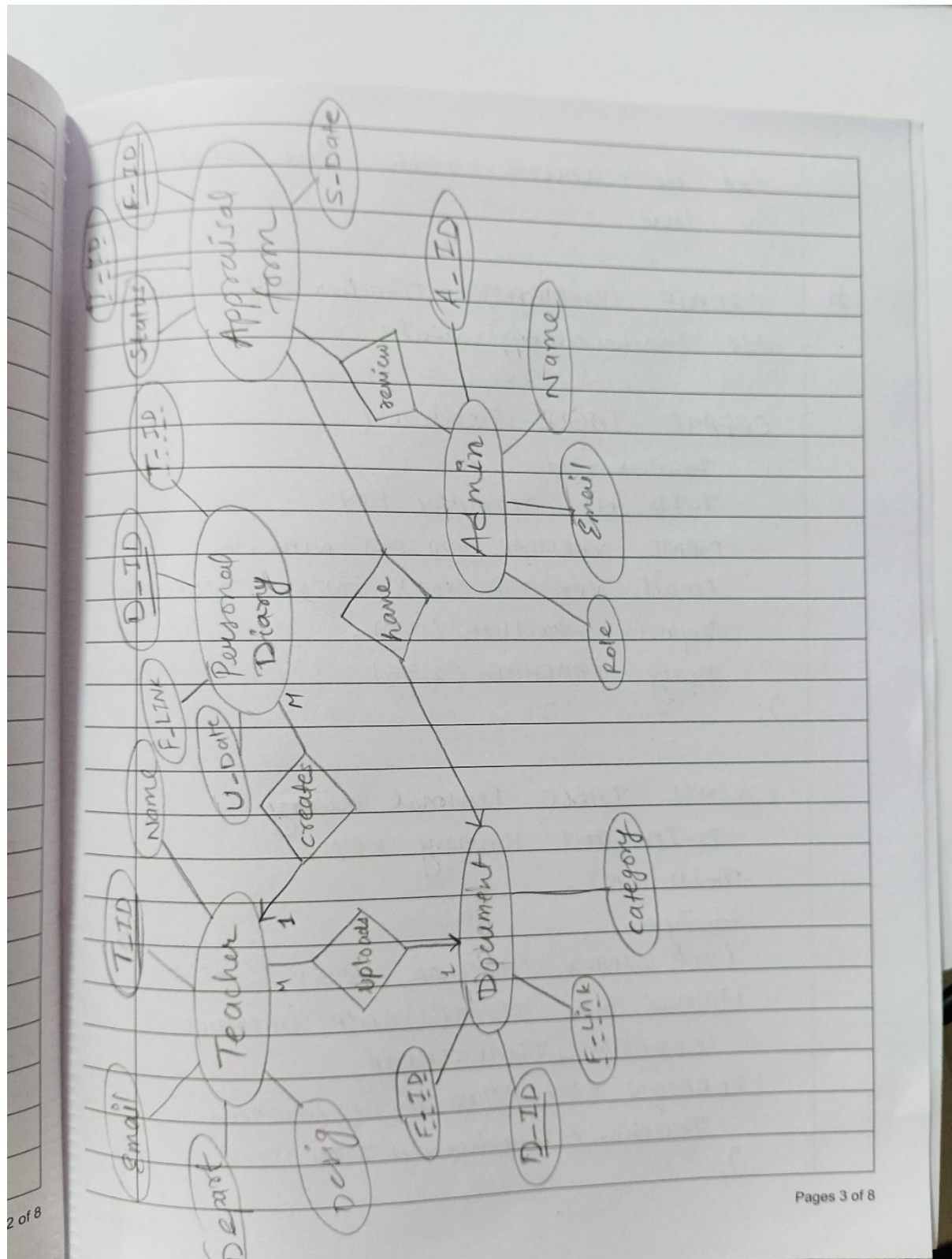


ER Diagram-



SQL – Queries

Table Creation: -

```
1. CREATE TABLE Teacher (  
    Teacher_ID INT PRIMARY KEY AUTO_INCREMENT,  
    Name VARCHAR(100) NOT NULL,  
    Email VARCHAR(100) UNIQUE NOT NULL,  
    Department VARCHAR(100),  
    Designation VARCHAR(100)  
);
```

	Teacher_ID	Name	Email	Department	Designation
▶	1	Dr. Rajesh Kumar	rajesh.kumar@example.com	Computer Science	Professor
	2	Prof. Anita Sharma	anita.sharma@example.com	Mathematics	Associate Professor
	3	Dr. Sameer Verma	sameer.verma@example.com	Physics	Assistant Professor
★	NULL	NULL	NULL	NULL	NULL

```
2. CREATE TABLE PersonalDiary (  
    Diary_ID INT PRIMARY KEY AUTO_INCREMENT,  
    Teacher_ID INT,  
    Upload_Type VARCHAR(155),  
    File_Link VARCHAR(255),  
    Upload_Date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (Teacher_ID) REFERENCES Teacher(Teacher_ID)  
);
```

	Diary_ID	Teacher_ID	Upload_Type	File_Link	Upload_Date
▶	1	1	Certificate	https://link.com/cert1.pdf	2025-03-01 10:00:00
	2	1	Research Paper	https://link.com/research1.pdf	2025-03-02 12:30:00
	3	2	Project	https://link.com/project1.pdf	2025-03-03 15:45:00
	4	3	Other	https://link.com/other1.pdf	2025-03-04 09:20:00
★	NULL	NULL	NULL	NULL	NULL

```
3. CREATE TABLE UploadedDocuments (  
    Document_ID INT PRIMARY KEY AUTO_INCREMENT,  
    Form_ID INT,  
    File_Link VARCHAR(255),  
    Category VARCHAR(255)  
);
```

	Document_ID	Form_ID	File_Link	Category
▶	1	1	https://example.com/research2.pdf	Research
	2	2	https://example.com/cert2.pdf	Certification
	3	3	https://example.com/project2.pdf	Project
★	NULL	NULL	NULL	NULL

4.

```
CREATE TABLE Admin (  
    Admin_ID INT PRIMARY KEY AUTO_INCREMENT,  
    Name VARCHAR(100) NOT NULL,  
    Email VARCHAR(100) UNIQUE NOT NULL,  
    Role VARCHAR(50)  
);
```

	Admin_ID	Name	Email	Role
▶	1	Dr. Prakash Mehta	prakash.mehta@example.com	HOD
	2	Dr. Sunita Das	sunita.das@example.com	Principal
	3	Prof. Ramesh Iyer	ramesh.iyer@example.com	Committee
•	NULL	NULL	NULL	NULL

5 SQL Queries :-

1.

- ```
SELECT Name, Email, Role
FROM Admin
WHERE Role IN ('HOD', 'Committee')
ORDER BY Name;
```

Output:

|   | Name              | Email                     | Role      |
|---|-------------------|---------------------------|-----------|
| ▶ | Dr. Prakash Mehta | prakash.mehta@example.com | HOD       |
|   | Prof. Ramesh Iyer | ramesh.iyer@example.com   | Committee |

2.

```
SELECT Department, COUNT(Teacher_ID) AS Total_Teachers
FROM Teacher
GROUP BY Department
ORDER BY Total_Teachers DESC;
```

Output:

|   | Department       | Total_Teachers |
|---|------------------|----------------|
| ▶ | Computer Science | 1              |
|   | Mathematics      | 1              |
|   | Physics          | 1              |

3.

```
SELECT Upload_Type, COUNT(Diary_ID) AS Total_Uploads
FROM PersonalDiary
GROUP BY Upload_Type
ORDER BY Total_Uploads DESC;
```

Output:

|   | Upload_Type    | Total_Uploads |
|---|----------------|---------------|
| ▶ | Certificate    | 1             |
|   | Research Paper | 1             |
|   | Project        | 1             |
|   | Other          | 1             |

4.

UPDATE Teacher

```
SET Email = 'new.email@example.com', Department = 'Data Science'
WHERE Teacher_ID = 1;
```

|   | Teacher_ID | Name               | Email                    | Department   | Designation         |
|---|------------|--------------------|--------------------------|--------------|---------------------|
| ▶ | 1          | Dr. Rajesh Kumar   | new.email@example.com    | Data Science | Professor           |
|   | 2          | Prof. Anita Sharma | anita.sharma@example.com | Mathematics  | Associate Professor |
|   | 3          | Dr. Sameer Verma   | sameer.verma@example.com | Physics      | Assistant Professor |
| • | NULL       | NULL               | NULL                     | NULL         | NULL                |

5.

DELETE FROM PersonalDiary

```
WHERE Diary_ID = 2;
```

|   | Diary_ID | Teacher_ID | Upload_Type | File_Link                     | Upload_Date         |
|---|----------|------------|-------------|-------------------------------|---------------------|
| ▶ | 1        | 1          | Certificate | https://link.com/cert1.pdf    | 2025-03-01 10:00:00 |
|   | 3        | 2          | Project     | https://link.com/project1.pdf | 2025-03-03 15:45:00 |
|   | 4        | 3          | Other       | https://link.com/other1.pdf   | 2025-03-04 09:20:00 |
| • | NULL     | NULL       | NULL        | NULL                          | NULL                |