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**COLLEGE TIMETABLE MANAGEMENT SYSTEM**

**CONTRIBUTION:** Normalization,Triggers,UI,Backend Connectivity

**TABLE NAME:**

COURSE

DEPARTMENT

FACULTY

**KEY WORDS:**

*RELATION* : COURSE

*DOMAIN*  : VALUES

*ATTRIBUTE* : course\_code, course\_id,department\_id,semester,course\_type,credits

*CONSTRAINT : unique key,primary key,unique key, composite key*

*TUPLES : Set of records*

**NORMALIZATION:**

Integrity, Data Redundancy

1NF ,2NF,3NF,4NF,5NF

COURSE(Master Table)

DEPARTMENT(Master Table)

FACULTY(Transaction Table)

1NF – Department, There is a column named department\_id which is a primary

2NF – No partial dependency (Department Table)

3NF – No transitive partial dependency

**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 – Student\_id,name,native\_id

JOB – job\_id, job\_name

NATIVE – native\_id, native\_name

CREATE,INSERT,DELETE

CREATE TABLE `departments` (

  `department\_id` varchar(50) NOT NULL,

  `department\_name` varchar(100) NOT NULL,

  `category` enum('Core','Non-Core') NOT NULL,

  `created\_at` timestamp NOT NULL DEFAULT current\_timestamp()

)

INSERT INTO `departments` (`department\_id`, `department\_name`, `category`, `created\_at`) VALUES

('AD', 'Artificial Intelligence And Data Science', 'Core', '2025-05-03 08:25:32'),

('AM', 'Artificial Intelligence And Machine Learning', 'Core', '2025-05-03 08:37:00'),

('EC', 'Electronics And Communication Engineering', 'Core', '2025-05-03 08:41:25'),

('m', 'maths', 'Non-Core', '2025-05-03 09:52:02');

('ADB1221', 'AD', 'FDS', 3, 'Theory', 4);

DELETE TABLE ‘departments’

JOIN:

SELECT d.department\_id, d.department\_name, d.category, d.created at

FROM departments d

JOIN faculty f

**DTD:**

CDATA – Character Data

PCDATA – Parsed Character Data

XML

<login> timeout = 10</login>

DTD

<!ELEMENT login EMPTY>

<!ATTLIST login timeout CDATA “0”>

FRONTEND – HTML,CSS,TAILWIND CSS,REACT JS,ANDROID,FLUTTER,FLASK

BACKEND – MYSQL,ORACLE,JSON,SQLLITE,FIREBASE,MONGO DB(NO SQL)

LANGUAGE – PYTHON,PHP

FRAMEWORK – XAMPP

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| MODULE NAME | SUB MODULE | DESCRIPTION |
| FACULTY | FACULTY\_COURSES | In faculty module, faculties can be added with faculty\_id, faculty\_name,email,phone\_number,courses |

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | SUB MODULE NAME | FORM NAME | DESCRIPTION | TABLE NAME | TABLE DESCRIPTION | |  |  |  |  |  | |  |
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