Indian Institute of Information Technology, Nagpur



Registration and Feedback System

Database and Management System

Computer Science & Engineering

5rd Semester

Prepared By:

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**PART I**

**FEEDBACK SYSTEM**

CREATE TABLE STUDENT\_DETAILS(

    STUDENT\_ID INTEGER PRIMARY KEY,

    ACADEMIC\_YEAR INTEGER NOT NULL,

    SEMESTER INTEGER NOT NULL,

    BRANCH VARCHAR(4),

    SECTION VARCHAR(5),

    COURSE VARCHAR(20)

);

CREATE TABLE FEEDBACK\_DETAILS(

    FEEDBACK\_ID INTEGER AUTO\_INCREMENT PRIMARY KEY,

    FEEDBACK\_DATE DATE,

    STUDENT\_ID INTEGER,

    COURSE VARCHAR(20),

    Q1 INTEGER,

    Q21 INTEGER,

    Q22 INTEGER,

    Q23 INTEGER,

    Q24 INTEGER,

    Q25 INTEGER,

    Q3 INTEGER,

    Q4 INTEGER,

CONSTRAINT FD\_K FOREIGN KEY (STUDENT\_ID) REFERENCES STUDENT\_DETAILS (STUDENT\_ID)

);

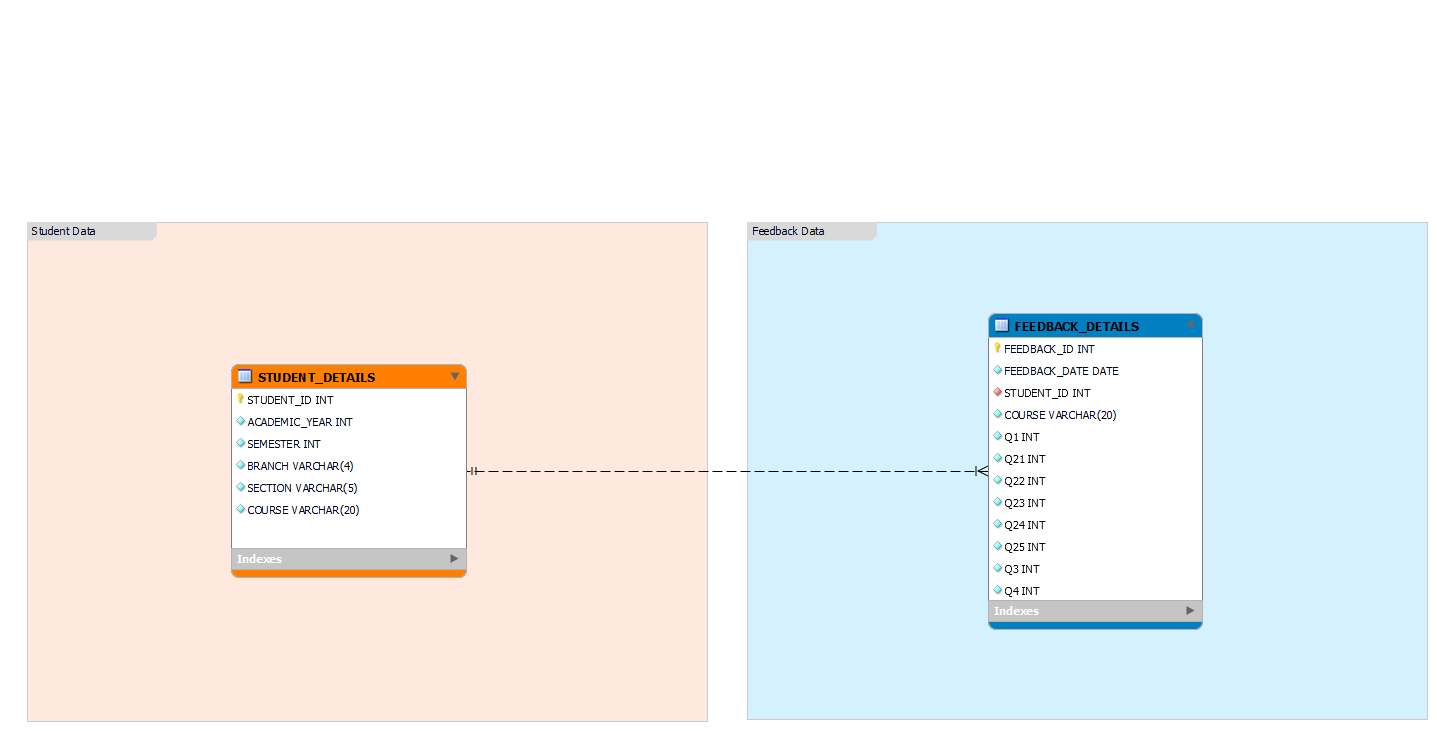
**The student\_details will be storing all the details about the students who have filled the Feedback form and feedback\_details will be storing the information about what the students have filled in the form. The link between these two table schemas will STUDENT\_ID through which you can select all the form entries the student has filled in all different Courses.**

The Entities along with their Attributes have been listed below –

|  |
| --- |
| **FEEDBACK\_DETAILS** |
| FEEDBACK\_ID (PK)(AI) |
| FEEDBACK\_DATE |
| STUDENT\_ID (FK) |
| COURSE |
| Q1 |
| Q21 |
| Q22 |
| Q23 |
| Q24 |
| Q25 |
| Q3 |
| Q4 |

|  |
| --- |
| **STUDENT\_DETAILS** |
| STUDENT\_ID (PK) |
| ACADEMIC\_YEAR |
| SEMESTER |
| BRANCH |
| SECTION |
| COURSE |

Here, the underlined Attributes denote Primary Keys and (FK) represents.

****The Entity Relationships among all these Entities will look like -

**PART – II**

**REGISTERATION SYSTEM**

CREATE TABLE STUDENT\_FORM(

    JEE\_ROLL\_NO INTEGER UNIQUE,

    FORM\_ID INTEGER AUTO\_INCREMENT PRIMARY KEY,

    DATE\_OF\_REG DATE

);

CREATE TABLE STUDENT\_REG\_DETAILS(

    JEE\_ROLL\_NO INTEGER PRIMARY KEY,

    SNAME VARCHAR(30),

    GENDER VARCHAR(1),

    BLOOD\_GROUP VARCHAR(5),

    DOB DATE,

    MOBILE1 VARCHAR(11),

    EMAIL VARCHAR(30),

    AADHAR\_NO VARCHAR(20),

    BRANCH VARCHAR(3),

    MINORITY VARCHAR(10),

    FATHER\_NAME VARCHAR(30),

    FATHER\_OCCUPATION VARCHAR(30),

    MOTHER\_NAME VARCHAR(30),

    MOTHER\_OCCUPATION VARCHAR(30),

    PARENT\_MOBILE VARCHAR(11),

    HOSTEL\_REQ VARCHAR(5),

    PHOTO VARCHAR(30),

    SIGN VARCHAR(30),

    FOREIGN KEY(JEE\_ROLL\_NO) REFERENCES STUDENT\_FORM(JEE\_ROLL\_NO)

);

CREATE TABLE STUDENT\_JEE\_DETAILS(

    JEE\_ROLL\_NO INTEGER PRIMARY KEY,

    ALLOTMENT\_ROUND VARCHAR(2),

    AIR INTEGER,

    PERCENTILE INTEGER,

    ALLOTMENT\_CATEGORY VARCHAR(10),

    CANDIDATE\_CATEGORY VARCHAR(10),

    FOREIGN KEY(JEE\_ROLL\_NO) REFERENCES STUDENT\_FORM(JEE\_ROLL\_NO)

);

CREATE TABLE STUDENT\_DESEASE(

    JEE\_ROLL\_NO INTEGER,

    CHRONIC\_DISEASE VARCHAR(4),

    DETAILS VARCHAR(100),

    FOREIGN KEY(JEE\_ROLL\_NO) REFERENCES STUDENT\_FORM(JEE\_ROLL\_NO)

);

CREATE TABLE DD\_DB(

    DD\_NO VARCHAR(20) PRIMARY KEY,

    DD\_DATE DATE,

    DD\_AMOUNT INTEGER

);

CREATE TABLE STUDENT\_PAYMENTS(

    JEE\_ROLL\_NO INTEGER PRIMARY KEY,

    JOSSA\_DD VARCHAR(20),

    INST\_DD VARCHAR(20),

    FOREIGN KEY(JEE\_ROLL\_NO) REFERENCES STUDENT\_FORM(JEE\_ROLL\_NO),

    FOREIGN KEY(JOSSA\_DD) REFERENCES DD\_DB(DD\_NO),

    FOREIGN KEY(INST\_DD) REFERENCES DD\_DB(DD\_NO)

);

CREATE TABLE STUDENT\_10\_DB(

    JEE\_ROLL\_NO INTEGER PRIMARY KEY,

    BOARD\_NAME VARCHAR(30),

    PASSING\_YEAR VARCHAR(4),

    PERCENTAGE INTEGER,

    FOREIGN KEY(JEE\_ROLL\_NO) REFERENCES STUDENT\_FORM(JEE\_ROLL\_NO)

);

CREATE TABLE STUDENT\_12\_DB(

    JEE\_ROLL\_NO INTEGER PRIMARY KEY,

    BOARD\_NAME VARCHAR(30),

    SUBJECT VARCHAR(30),

    PASSING\_YEAR VARCHAR(4),

    PERCENTAGE INTEGER,

    FOREIGN KEY(JEE\_ROLL\_NO) REFERENCES STUDENT\_FORM(JEE\_ROLL\_NO)

);

CREATE TABLE STUDENT\_CURR\_ADD(

    JEE\_ROLL\_NO INTEGER PRIMARY KEY,

    ADDRESS VARCHAR(100),

    CITY VARCHAR(30),

    STATE VARCHAR(30),

    PIN\_CODE VARCHAR(6),

    PHONE VARCHAR(11),

  FOREIGN KEY(JEE\_ROLL\_NO) REFERENCES STUDENT\_FORM(JEE\_ROLL\_NO)

);

CREATE TABLE STUDENT\_PER\_ADD(

    JEE\_ROLL\_NO INTEGER PRIMARY KEY,

    ADDRESS VARCHAR(100),

    CITY VARCHAR(30),

    STATE VARCHAR(30),

    PIN\_CODE VARCHAR(6),

    PHONE VARCHAR(11),

     FOREIGN KEY(JEE\_ROLL\_NO) REFERENCES STUDENT\_FORM(JEE\_ROLL\_NO)

);

CREATE TABLE STUDENT\_DOCUMENTS(

    JEE\_ROLL\_NO INTEGER PRIMARY KEY,

    ALLOTMENT\_LETTER VARCHAR(30),

    JEE\_RANK\_CARD VARCHAR(30),

    PHOTO\_ID VARCHAR(30),

    DOB VARCHAR(30),

    QEXAM VARCHAR(30),

    INCOME\_CERTIFICATE VARCHAR(30),

    CAST\_CERTIFICATE VARCHAR(30),

    CAST\_VALIDITY VARCHAR(30),

    OBC\_CERTIFICATE VARCHAR(30),

    DISABILITY\_CERTIFICATE VARCHAR(30),

    TRANSFER\_CERTIFICATE VARCHAR(30),

    MIGRATION\_CERTIFICATE VARCHAR(30),

    AADHAR\_CARD VARCHAR(30),

    GAP\_CARD VARCHAR(30),

    FOREIGN KEY(JEE\_ROLL\_NO) REFERENCES STUDENT\_FORM(JEE\_ROLL\_NO)

);

The Entities along with their Attributes have been listed below –

|  |
| --- |
| **STUDENT\_DESEASE** |
| JEE\_ROLL\_NO(PK)(FK) |
| CHRONIC\_DISEASE |
| DETAILS |

|  |
| --- |
| **STUDENT\_FORM** |
| JEE\_ROLL\_NO |
| FORM\_ID(PK)(AI) |
| DATE\_OF\_REG |

|  |
| --- |
| **DD\_DB** |
| DD\_NO(PK) |
| DD\_DATE |
| DD\_AMOUNT |

|  |
| --- |
| **STUDENT\_12\_DB** |
| JEE\_ROLL\_NO(PK)(FK) |
| BOARD\_NAME |
| SUBJECT |
| PASSING\_YEAR |
| PERCENTAGE |

|  |
| --- |
| **STUDENT\_PAYMENTS** |
| JEE\_ROLL\_NO(PK)(FK) |
| JOSSA\_DD (FK) |
| INST\_DD (FK) |

|  |
| --- |
| **STUDENT\_10\_DB** |
| JEE\_ROLL\_NO(PK)(FK) |
| BOARD\_NAME |
| PASSING\_YEAR |
| PERCENTAGE |

|  |
| --- |
| **STUDENT\_REG\_DETAILS** |
| JEE\_ROLL\_NO (PK)(FK) |
| SNAME |
| GENDER |
| BLOOD\_GROUP |
| DOB |
| MOBILE1 |
| EMAIL |
| AADHAR\_NO |
| BRANCH |
| MINORITY |
| FATHER\_NAME |
| FATHER\_OCCUPATION |
| MOTHER\_NAME |
| MOTHER\_OCCUPATION |
| PARENT\_MOBILE |
| HOSTEL\_REQ |
| PHOTO |
| SIGN |

|  |
| --- |
| **STUDENT\_DOCUMENTS** |
| JEE\_ROLL\_NO (PK)(FK) |
| Seat Allotment Letter |
| JEE Rank Card |
| Photo ID Proof |
| DOB |
| QEXAM |
| Income Certificate |
| Cast Certificate |
| Cast validity |
| Certificate for OBC |
| DISABILITY\_CERTIFICATE |
| TRANSFER\_CERTIFICATE |
| MIGRATION\_CERTIFICATE |
| AADHAR\_CARD |
| GAP\_CARD |

|  |
| --- |
| **STUDENT\_CURR\_ADD** |
| JEE\_ROLL\_NO(PK)(FK) |
| ADDRESS |
| CITY |
| STATE |
| PIN\_CODE |
| PHONE |

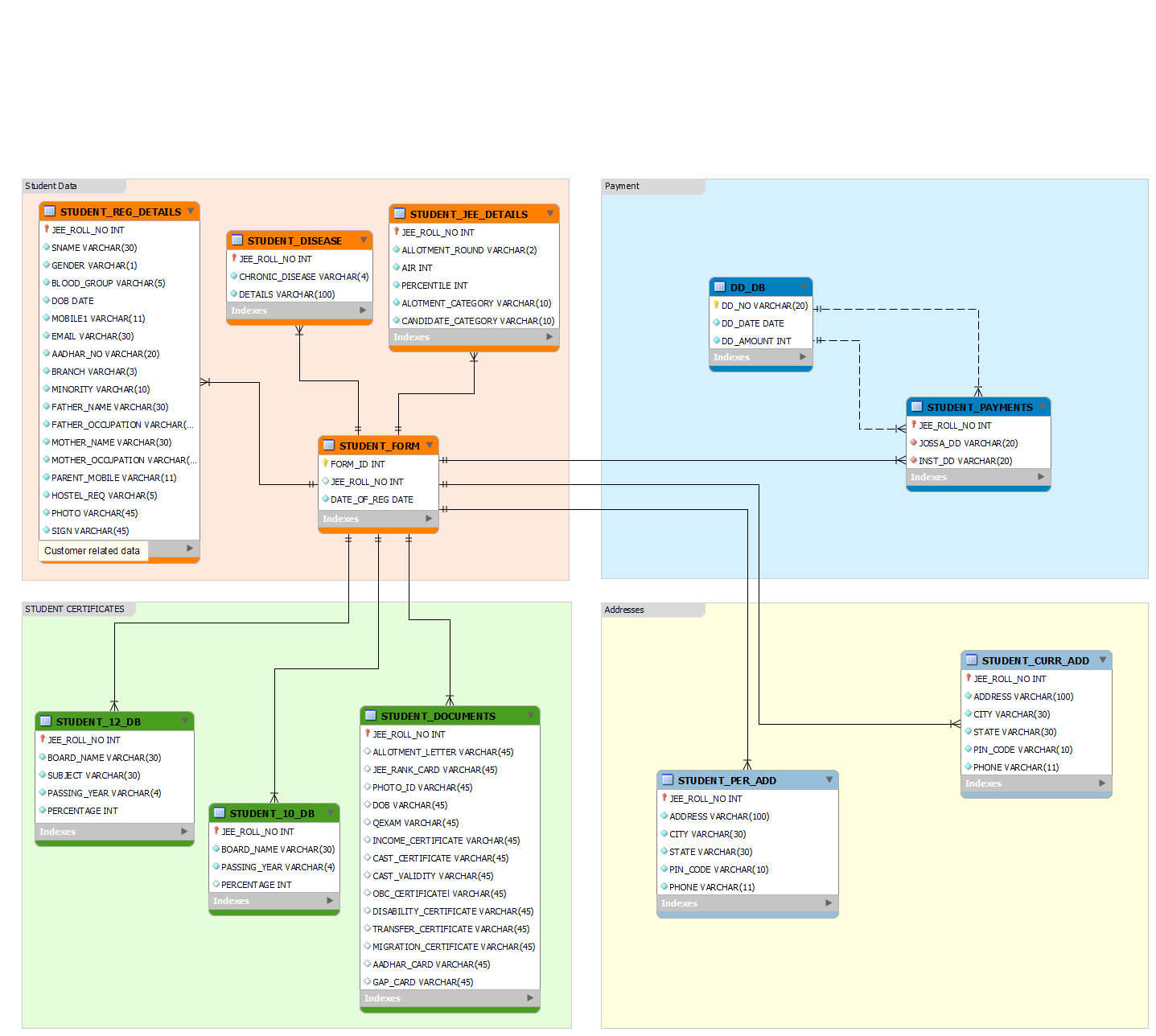
|  |
| --- |
| **STUDENT\_PER\_ADD** |
| JEE\_ROLL\_NO(PK)(FK) |
| ADDRESS |
| CITY |
| STATE |
| PIN\_CODE |
| PHONE |

|  |  |  |
| --- | --- | --- |
| Entity | Primary Key | Foreign Key |
| STUDENT\_FORM | FORM\_ID |  |
| STUDENT\_REG\_DETAILS | JEE\_ROLL\_NO | JEE\_ROLL\_NO |
| STUDENT\_JEE\_DETAILS | JEE\_ROLL\_NO | JEE\_ROLL\_NO |
| STUDENT\_DISEASE | JEE\_ROLL\_NO | JEE\_ROLL\_NO |
| DD\_DB | DD\_NO |  |
| STUDENT\_PAYMENTS | JEE\_ROLL\_NO | JEE\_ROLL\_NO, JOSSA\_DD, INST\_DD |
| STUDENT\_10\_DB | JEE\_ROLL\_NO | JEE\_ROLL\_NO |
| STUDENT\_12\_DB | JEE\_ROLL\_NO | JEE\_ROLL\_NO |
| STUDENT\_CURR\_ADD | JEE\_ROLL\_NO | JEE\_ROLL\_NO |
| STUDENT\_PER\_ADD | JEE\_ROLL\_NO | JEE\_ROLL\_NO |
| STUDENT\_DOCUMENTS | JEE\_ROLL\_NO | JEE\_ROLL\_NO |

After implicit considerations, the constraints on these entities are as follows:

1. The entity integrity in STUDENT\_FORM relation is maintained over the FORM\_ID attribute.
2. The entity integrity in STUDENT\_REG\_DETAILS relation is maintained over the JEE\_ROLL\_NO attribute.
3. The entity integrity in STUDENT\_JEE\_DETAILS relation is maintained over the JEE\_ROLL\_NO attribute.
4. The entity integrity in STUDENT\_DISEASE relation is maintained over the JEE\_ROLL\_NO attribute.
5. The entity integrity in DD\_DB relation is maintained over the DD\_NO attribute.
6. The entity integrity in STUDENT\_PAYMENTS relation is maintained over the JEE\_ROLL\_NO attribute.
7. The entity integrity in STUDENT\_10\_DB relation is maintained over the JEE\_ROLL\_NO attribute.
8. The entity integrity in STUDENT\_12\_DB relation is maintained over the JEE\_ROLL\_NO attribute.
9. The entity integrity in STUDENT\_CURR\_ADD relation is maintained over the JEE\_ROLL\_NO attribute.
10. The entity integrity in STUDENT\_PER\_ADD relation is maintained over the JEE\_ROLL\_NO attribute.
11. The entity integrity in STUDENT\_DOCUMENTS relation is maintained over the JEE\_ROLL\_NO attribute.
12. All the entities (apart from DD\_DB and STUDENT\_PAYMENTS) references STUDENT\_FORM to enforce the referential integrity on data existence.
13. The entity STUDENT\_PAYMENTS references DD\_DB to enforce the referential integrity on data existence.

The Entity Relationships among all these Entities will look like –

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