

### Phase 3: Data Modeling & Relationships

#### Key Activities:

- Standard & Custom Objects
- Fields, Record Types, Page Layouts, Compact Layouts
- Schema Builder
- Lookup vs Master-Detail vs Hierarchical Relationships
- Junction Objects
- External Objects

#### Description:

For Institute Management, custom objects are created for Students, Courses, Attendance.

#### 1. Create objects:

- Student (Name, Email, Phone, Roll Number)
- Course (Course Name, Duration, Fees)
- Attendance (Date, Status, Related Student & Course)

#### 2. Define relationships:

- Student ↔ Course (Many-to-Many using Junction object Enrollment)
- Student ↔ Attendance (Master-Detail)

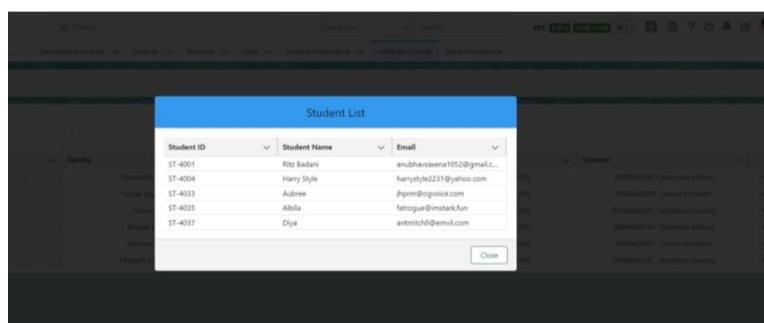
#### 3. Use Schema Builder to visualize.

#### 4. Define Record Types for different user needs (e.g., Full-time vs Part-time course).

#### 5. Configure layouts and compact layouts for mobile experience.

#### Outcome:

A complete data model with relationships ensuring logical and efficient data structure.



The screenshot shows the 'Courses' section in the Institute Management system. It displays a table with columns for Course Number, Course Name, Faculty, Course Status, Course Starting Date, Course Closing Date, Requirement, and Contact Number. The data rows are as follows:

Course Number	Course Name	Faculty	Course Status	Course Starting Date	Course Closing Date	Requirement	Contact Number
100-0001	Computer Science	Dr. Ravi	Active	10/01/2020	10/01/2020	0	9876543210
100-0002	Software Engineering	Dr. Ravi	Active	10/01/2020	10/01/2020	0	9876543210
100-0003	Software Engineering	Dr. Ravi	Active	10/01/2020	10/01/2020	0	9876543210
100-0004	Software Engineering	Dr. Ravi	Active	10/01/2020	10/01/2020	0	9876543210
100-0005	Software Engineering	Dr. Ravi	Active	10/01/2020	10/01/2020	0	9876543210
100-0006	Software Engineering	Dr. Ravi	Active	10/01/2020	10/01/2020	0	9876543210