

## **DOCUMENT FOR CS301 PROJECT PHASE A**

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**For the project phase A, we have implemented two triggers they are as follows :-**

1. `trig_insert_tickets_table` - Whenever a ticket is added by a student in the `tickets_table`, a copy of that ticket is added in the ticket tables of the faculty offering the course, faculty advisor of the student (a faculty advisor for that batch must be present), and the dean of academics (named `dean_acads` here).
2. `update_by_dean` - When the dean makes a decision of whether to approve a ticket of a student, if the ticket is approved, then this trigger registers the student in that course. The ticket with the dean's decision stays in the dean ticket table to give a history of all the tickets approved or rejected. Also, all the tickets in the `tickets_table` stay with all the decisions of the faculty, `faculty_advisor` and dean.

**The various roles/ or users in the student portal are:-**

1. Root - Through the Root, users are created. All the students, faculties are created by the Root.
2. `Dean_acads`
3. Students
4. Faculty - Some of the faculty are advisors of certain batch

**Permissions for various users.**

1. `Dean_acads` -
  - GRANT ALL ON `course_catalogue` TO `dean_acads`;
  - GRANT SELECT ON `course_offering` TO `dean_acads`;
  - GRANT SELECT ON `all_student_reg` TO `dean_acads`;
  - GRANT SELECT, UPDATE ON `tickets_table` TO `dean_acads`;
  - GRANT SELECT, UPDATE ON `dean_tickets_table` TO `dean_acads`;
  - GRANT SELECT ON `student_table` TO `dean_acads`;

- GRANT ALL ON time\_table TO dean\_acads;
- GRANT UPDATE on tickets\_table TO dean\_acads;
- GRANT ALL ON faculty\_advisor TO dean\_acads;
- GRANT SELECT ON f\_faculty\_id TO dean\_acads
- GRANT SELECT ON t\_student\_id TO dean\_acads;
- GRANT SELECT ON courseid\_sem\_year to dean\_acads;

## 2. Students -

- GRANT SELECT ON t\_student\_id TO student\_id;
- GRANT INSERT(course\_id, semester, year) ON t\_student\_id TO student\_id;
- GRANT SELECT ON course\_offering TO student\_id;
- GRANT SELECT ON course\_catalogue TO student\_id;
- GRANT SELECT ON faculty\_advisor TO student\_id;
- GRANT SELECT ON faculty\_table TO student\_id;
- GRANT SELECT ON time\_table TO student\_id;
- GRANT SELECT ON tickets\_table TO student\_id;
- GRANT INSERT(student\_id, course\_id, semester, year) ON tickets\_table TO student\_id;
- GRANT SELECT on student\_table TO student\_id;

## 3. Faculty -

- GRANT UPDATE, INSERT, SELECT ON f\_faculty\_id TO faculty\_id;
- GRANT SELECT ON course\_catalogue TO faculty\_id);
- GRANT SELECT ON time\_table TO faculty\_id);
- GRANT SELECT ON faculty\_advisor TO faculty\_id;
- GRANT SELECT ON faculty\_table TO faculty\_id;
- GRANT SELECT on student\_table TO faculty\_id;
- GRANT SELECT on t\_student\_id TO faculty\_id;
- GRANT SELECT, INSERT ON course\_offering TO faculty\_id);
- GRANT UPDATE on tickets\_table TO faculty\_id);
- GRANT SELECT on tickets\_table TO faculty\_id);

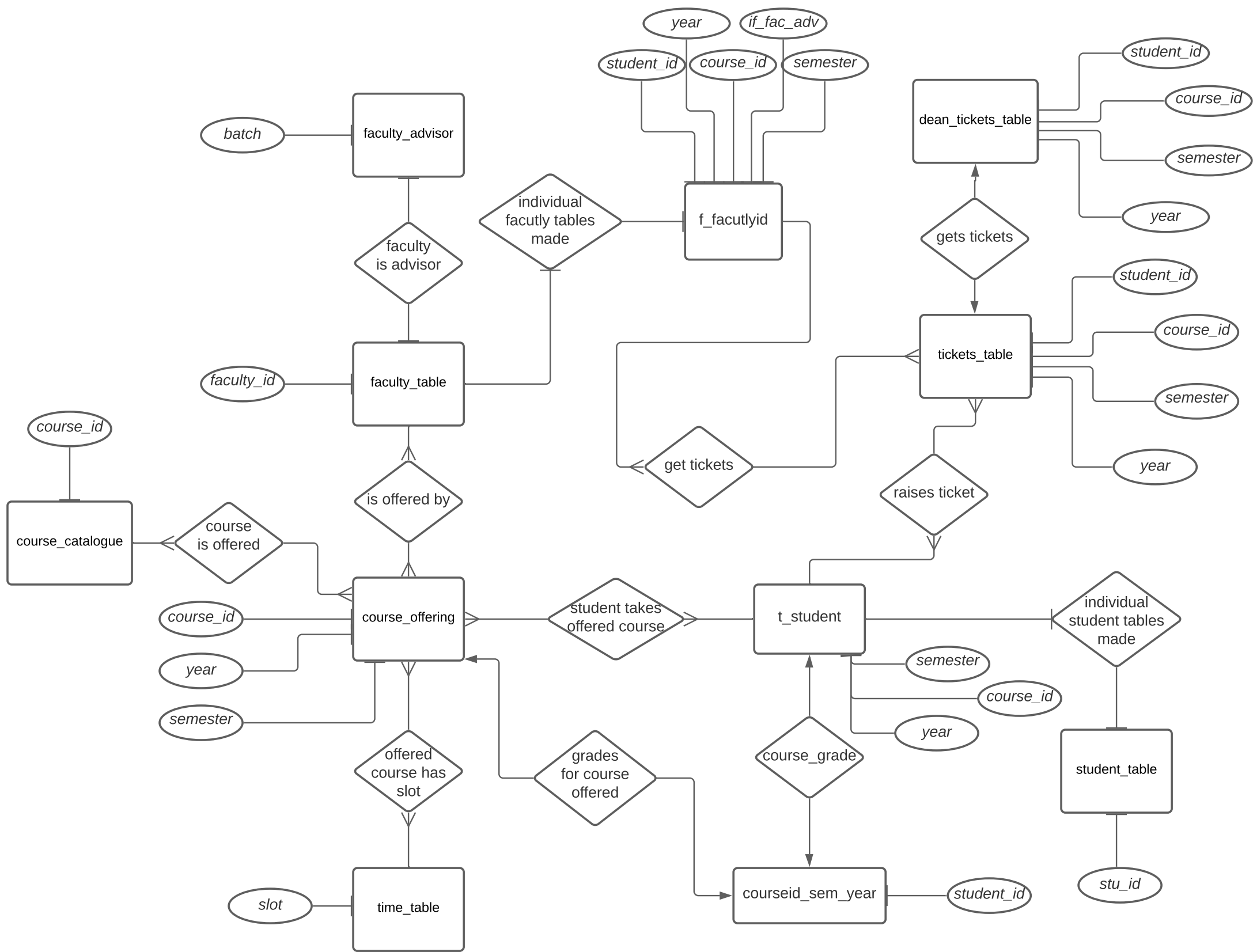


Table Name	Attributes
course_offering	<i>course_id, semester, year, faculty_id, time_slot, batch_list, constraints,</i>
course_catalogue	<i>course_id, L, T, P, S, C</i>
student_table	<i>stu_id, batch</i>
time_table	<i>slot</i>
faculty_table	<i>faculty_id</i>
faculty_advisor	<i>fac_id, batch</i>
t_student_id	<i>course_id, semester, year, grade</i>
f_faculty_id	<i>student_id, course_id, semester, year, credits, if_faculty_advisor, ins_app</i>
tickets_table	<i>student_id, course_id, semester, year, ins_app, fa_app, dean_app</i>
dean_tickets_table	<i>student_id, course_id, semester, year, credits, dean_app</i>
courseid_sem_year	<i>student_id, grade</i>