# Hall Management System

### Outline

- Entity Relationship Diagram
- ERD in depth Analysis
- Database Schema
- Trigger
- Procedure
- View
- Role

# Entity Relationship Diagram

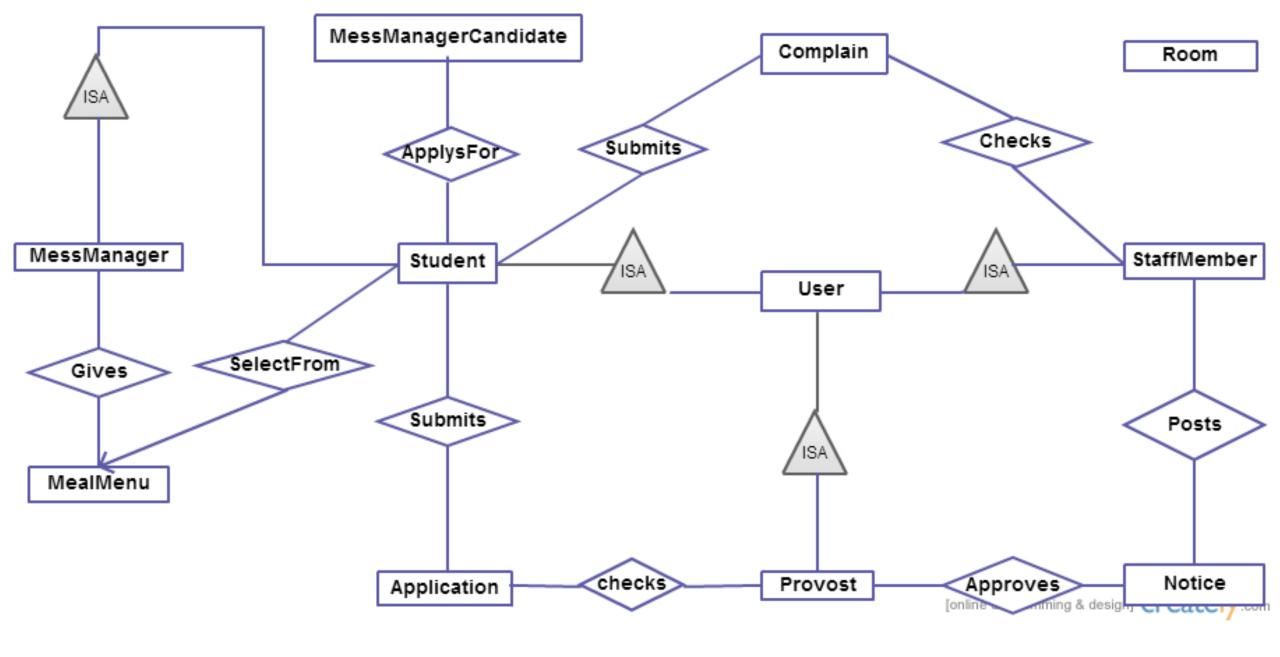


Figure: Entity Relationship Diagram

# ERD in depth Analysis

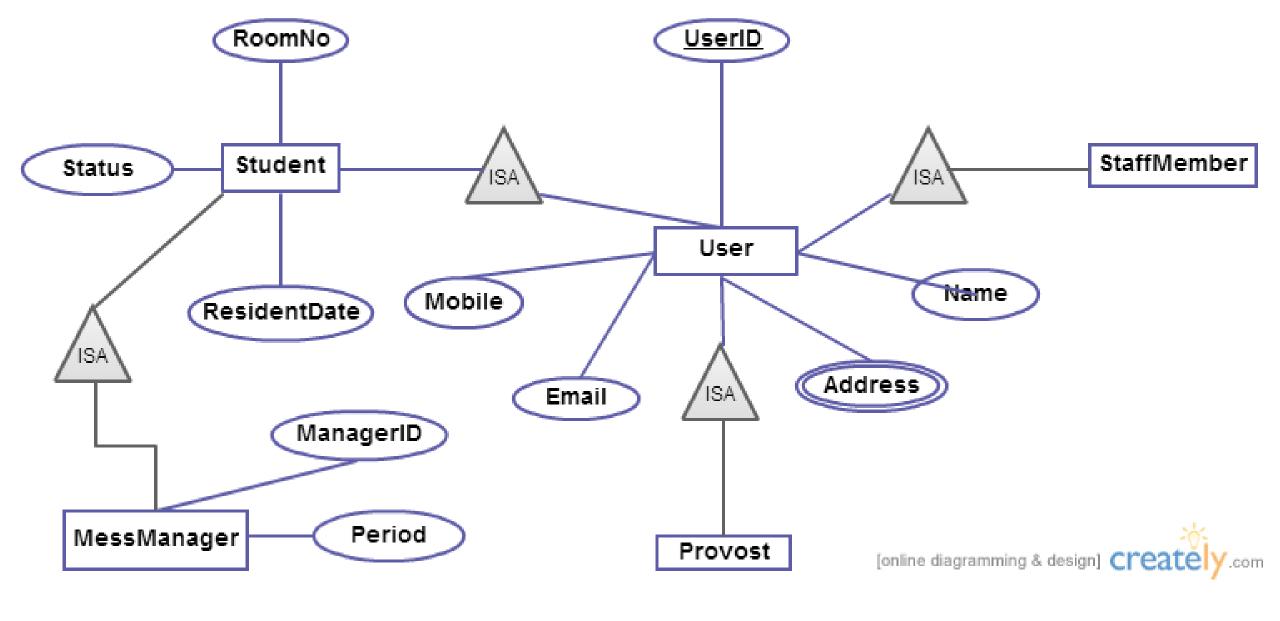


Figure: Entity Relationship Diagram

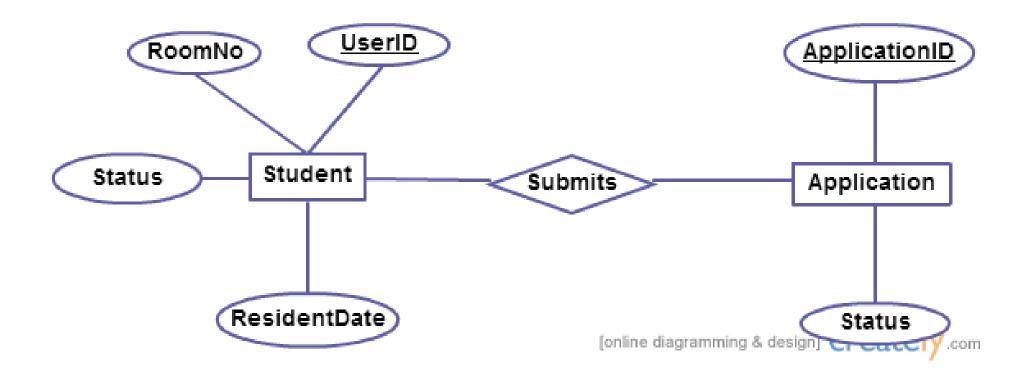


Figure: Entity Relationship Diagram

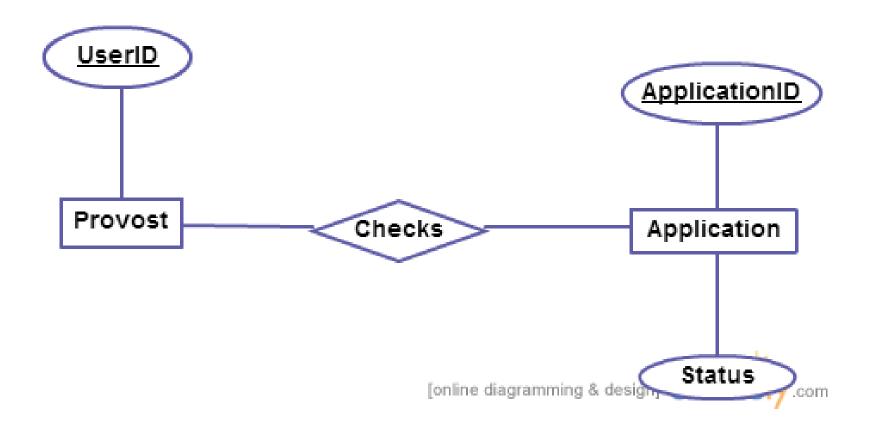


Figure: Entity Relationship Diagram

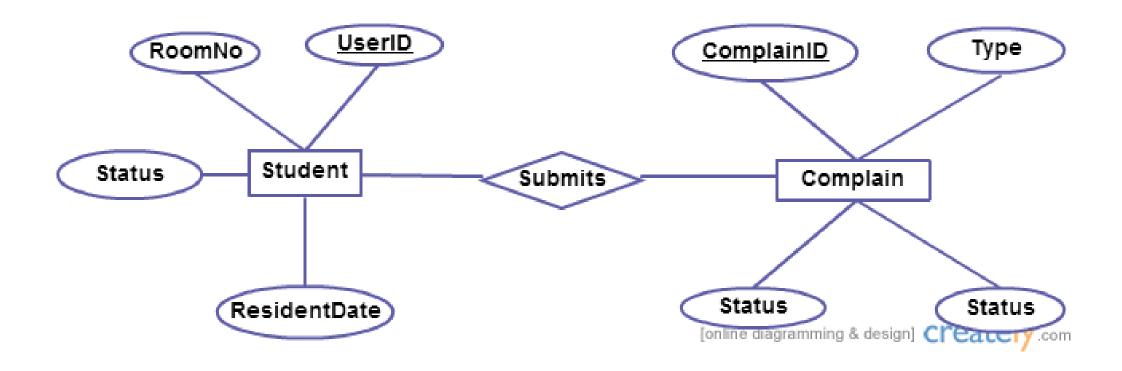


Figure: Entity Relationship Diagram

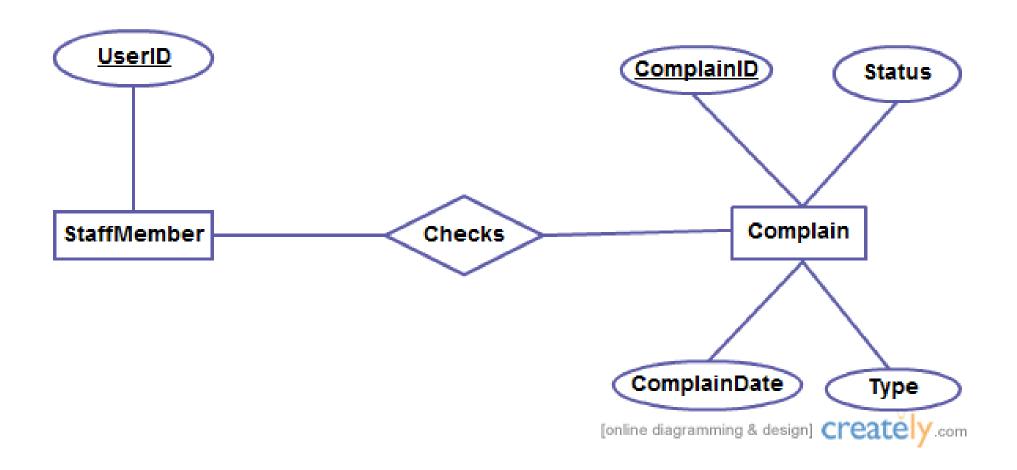


Figure: Entity Relationship Diagram

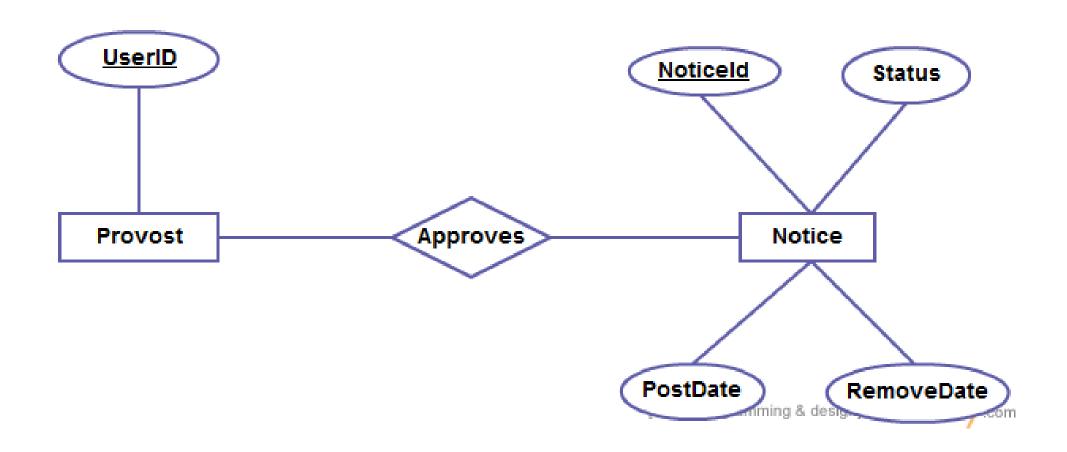


Figure: Entity Relationship Diagram

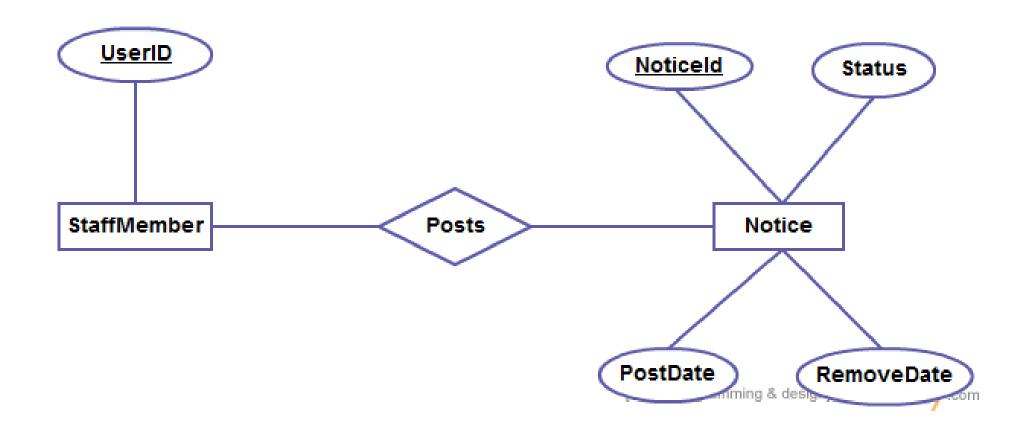


Figure: Entity Relationship Diagram

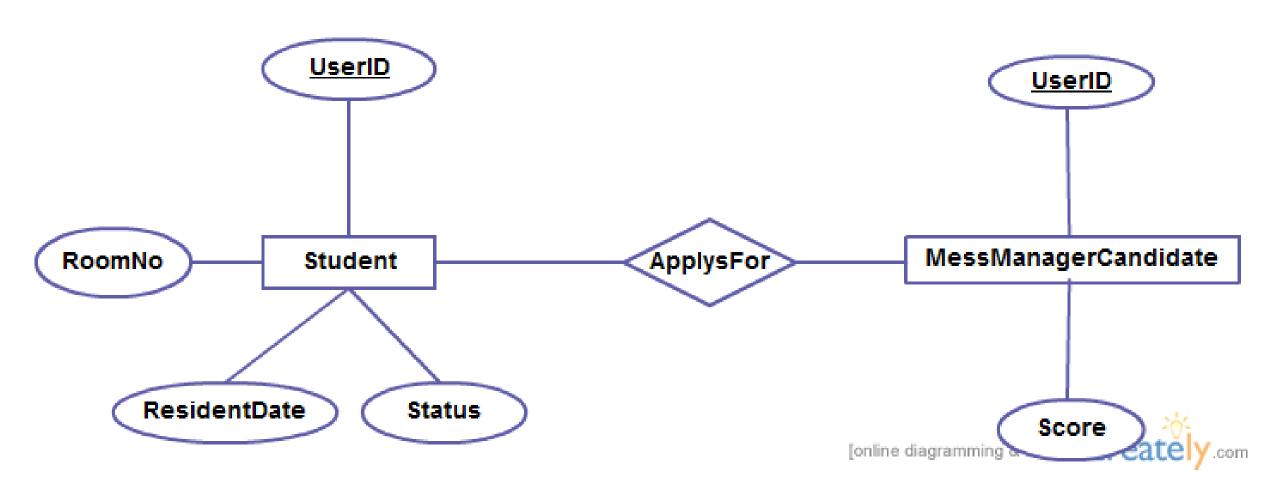


Figure: Entity Relationship Diagram

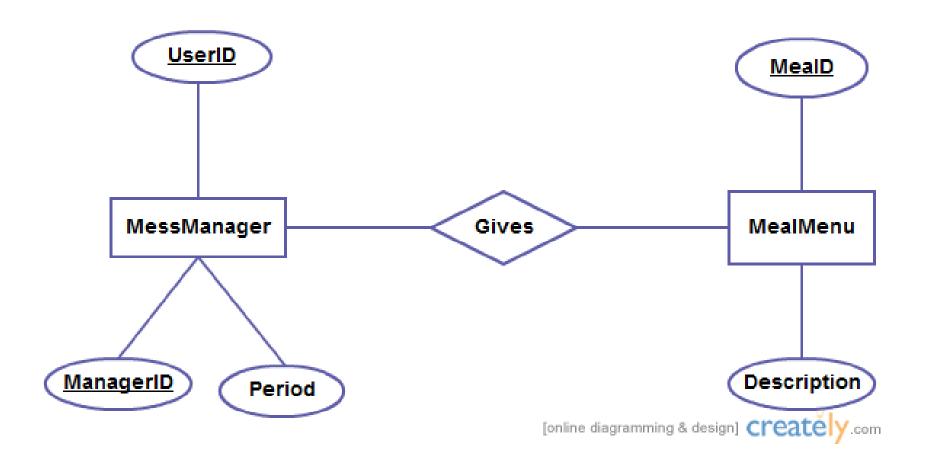


Figure: Entity Relationship Diagram

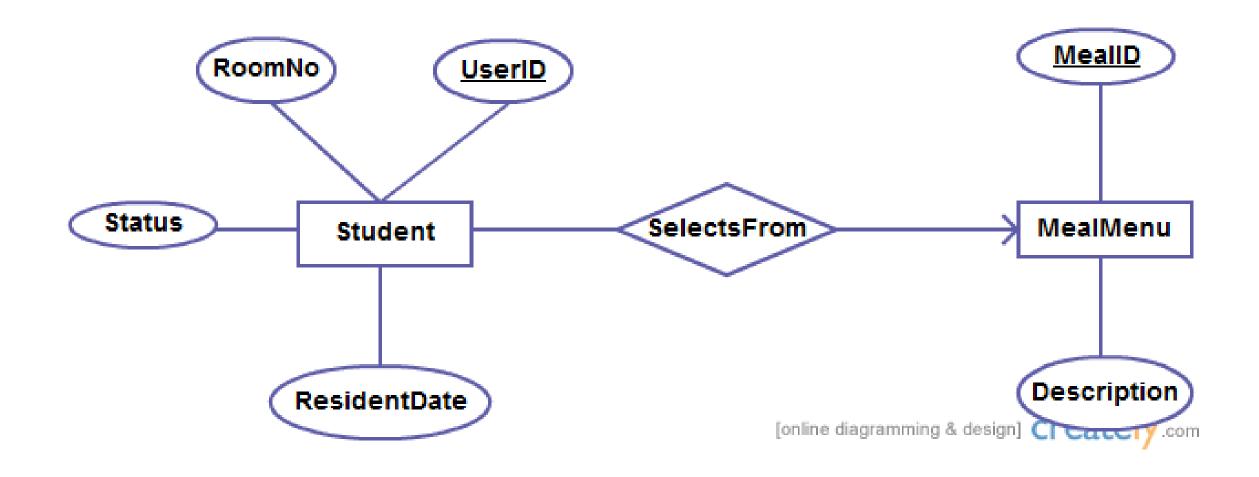


Figure: Entity Relationship Diagram

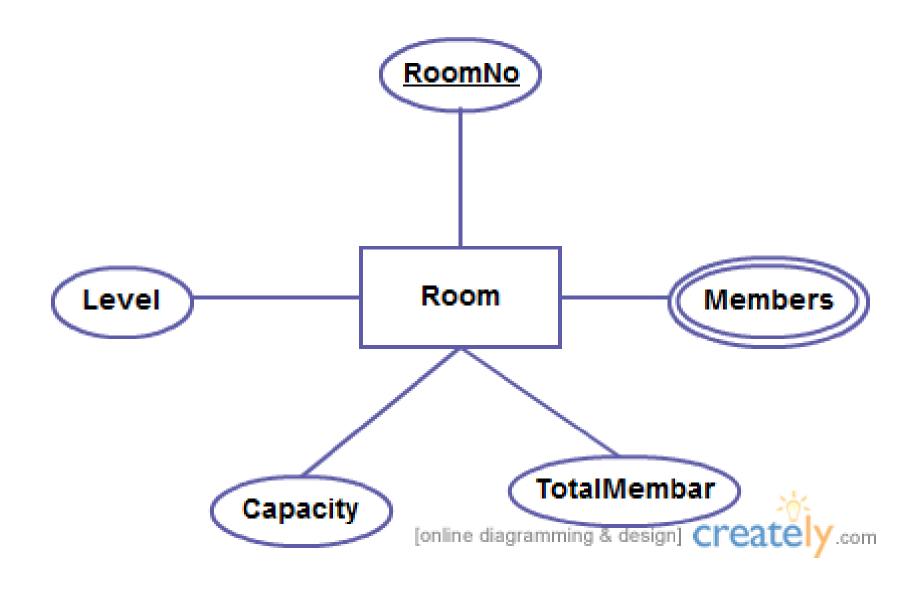


Figure: Entity Relationship Diagram

## Database Schema

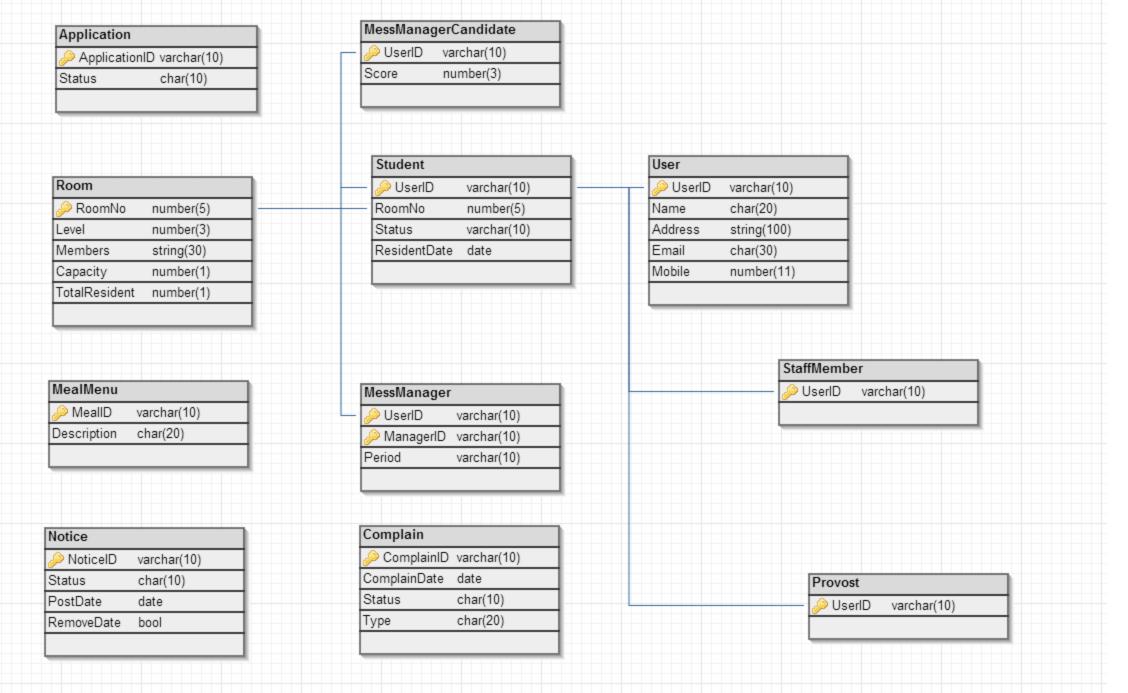


Figure: Database Schema for Hall Management System

- Trigger Name: defaultMealSelection
  - **Time of Execution**: After Meal selection timeLimit ends and isMealSelected sets to NO.

#### Actions:

Commands: SelectDefault

Attributes: MealID

Tables: Meal

Remarks: To prevent issues when no meal is selected by a student.

- **Trigger Name**: startVoteCount
  - Time of Execution: After isVotingFinished sets to YES

#### Actions:

Commands: Count

Attributes: studentID

Tables: Mess Manager

Remarks: To process result count when voting is done.

- **Trigger Name**: deleteExpiredNotice
  - Time of Execution: After noticeStatus sets to EXPIRED

#### Actions:

Commands: delete

Attributes: NoticeID

Tables: Notice

Remarks: helps maintenance easy and up to date with most important notices.

- Trigger Name: makeStudentResident
  - Time of Execution: After isApproved sets to YES

#### Actions:

Commands: makeResident

Attributes: StudentID

■ Tables: Student

Remarks: Autoupdate resident status after being approved by provost.

## Procedure

## Procedure(1)

Procedure Name	getResidentStudentList
Time of Execution	Provost has to submit monthly a resident list to the administration office
Input	Nil
Output	List of names of resident students and the date of their being resident
Applyon	Student

Action	Remarks
Select name and date of being resident	Select the name and resident date from
from Student	table Student where status = 'Resident'

## Procedure(2)

Procedure Name	getMealList
Time of Execution	When the provost wants to see if any mess manager is managing meals okay
Input	Date1, Date2
Output	List of name of the meals that are served within Date1 and Date2
Applyon	Meal

Action	Remarks
Select meal from Meal where date of	Select all the food meals from the table
meal >= Date1 and =< Date2	Meal and showed in a ascending order by
	date

## Procedure(3)

Procedure Name	getRoomMaintenanceComplain
Time of Execution	Any time a student posts a complain that is under Room
	Maintenance it is immediately acknowledged
Input	Nil
Output	List of name room and the problem description
Applyon	Complain

Action	Remarks
Select complain from Complain where	This type of problems are served
type = 'Room Maintenance'	immediately by the staff members

## Procedure(4)

Procedure Name	getExpiredNotice
Time of Execution	Any time a student wants to see those notices that are old and expired
Input	Date1, Date2
Output	List of notice along with their publishing date
Apply on	Notice

Action	Remarks
Select notice from Notice where	Select all notice from Notice within Date1
<pre>publishing date is &gt;= Date1 and =&lt; Date2</pre>	and Date2 and showed in a ascending
	order by date

## Procedure(5)

Procedure Name	getRecentResidentList
Time of Execution	When a provost wants to see the resident students that joined recently
Input	Date1
Output	List of recently resident students that joined after Date1
Apply on	Notice

Action	Remarks
Select name and student_ID from	Show the name and student_ID from
Student where date of being resident >=	Student in an ascending order of date
Date1	

Election view: Here the students can see the selected candidate list for voting in the mess manager election.

• Notice view:

Here students can see the published notice by the hall staff members.

#### Room view

Here the list of the rooms which are empty is supplied to the hall supervisor. After having the supplied list he can assign the eligible student an empty room.

# Role

### Role 1

- create role provost\_role;
- grant all privileges on Application to provost\_role;

### Role 2

- create role supervisor\_role;
- grant all privileges on empty room to supervisor\_role;