Mcmillon Walton – 2017chb1047

Schema of tables-

1. Faculty table – (faculty\_id -> here, email address is used as unique identity.

faculty\_name -> Name of faculty

dept\_name -> the department he belongs to (ee,me,cs,etc)

leave\_left -> number of leave left this year.

curr\_year -> year

position -> cross cutting faculty (hod,dean,director,employee)

primary key (faculty\_id))

This table stores the data of total faculties in institution including HOD, dean, director and normal faculties.

1. HOD\_leave table – (faculty\_id, faculty\_name, dept\_name,

reason\_of\_leave -> reason for which leave is applied

num\_of\_leave\_left\_thisYear, curr\_year, num\_of\_leave\_applied, start\_date -> starting date of leave

end\_date -> end date of leave

submitted -> timestamp at which application is submitted

primary key (faculty\_id),foreign key (faculty\_id) references faculty);

This table stores data of leave application applied and which are forwarded to HOD.

1. DEAN\_leave table - (faculty\_id, faculty\_name, dept\_name, reason\_of\_leave, num\_of\_leave\_left\_thisYear, curr\_year, num\_of\_leave\_applied, start\_date, end\_date, submitted,

hod\_id -> email-id of hod

hod\_comments -> comment made by HOD on the application

approved -> timestamp at which the HOD approved application

primary key (faculty\_id),foreign key (faculty\_id) references faculty);

This table stores data of leave application applied by the employee, which is then forwarded to the dean after approval from HOD of the corresponding department.

1. DIR\_leave table – (faculty\_id, faculty\_name, dept\_name, reason\_of\_leave, num\_of\_leave\_left\_thisYear, curr\_year, num\_of\_leave\_applied, start\_date, end\_date, submitted, comment, primary key (faculty\_id), foreign key (faculty\_id) references faculty)

This table stores data of leave applications applied by HOD and dean which is forwarded to the Director. This table also contain data of retrospective leave application (which comes from normal employees).

1. Rejected table - (faculty\_id, dept\_name

who -> the person who cancelled the application

comm -> comments on the application

tt -> timestamp at which application was cancelled

)

This table stores data of application which are cancelled/rejected.

1. Archive table - (faculty\_id, faculty\_name varchar(50), dept\_name, reason\_of\_leave, curr\_year numeric(4), start\_date, end\_date, tt, hod\_comments, dean\_comments, dir\_comments, tt\_p timestamp)

This table contains all the approved application in the past with dates and comments of every party.

1. msg table - (faculty\_id, hod\_comm, dean\_comm, dir\_comm, dept\_name)

This table contains the extra messages/comments pertaining to a leave application. This is a volatile database

1. Log table – (uname, email, epassword)

This table stores the login id and password for each faculty.

Functions

1. auto\_cancell function

the function is used to cancel the application which are not approved by the starting date of an applied leave. (System cancels the applied application)

Procedures

1. update\_year procedure

This procedure will update the year and number of total leaves after the end of the year.

* Notification of comments, sent applications, rejected applications, approved applications are triggered through PHP cases.

Overview

1. First page is the login page. Each faculty can enter their id and password to login to their page.
2. Employee login – If the person is a normal employee, his page will show faculty table corresponding to his id. Start date, end date and comment box is present below it. There is a notification position at the top where he will be notified the status of his application and the comments on it. He also view his rejected and archived leave data.

Hod/dean login – In a person is a hod/dean, his page will show faculty table corresponding to his id. Start date, end date and comment box is present below it to apply his leave. It also contains hod\_leave/dean\_leave table corresponding to their department. There is option for reject and approval for a particular leave application.

Director login – The director will have the faculty table and option for changing hod and dean positions. Once the hod and dean position are changed, the leave application forwarded are changed accordingly (For example the previous HOD’s leave application will be sent to the new HOD and deleted from dir\_leave ). The director will contain dir\_leave table which contains leave applied by hod, dean and retrospective leaves.

1. auto\_cancell function and update\_year procedure is being called on each login instance and modification is done accordingly.