

Heaven's Light is Our Guide

Rajshahi University of Engineering & Technology



Department of Electrical & Computer Engineering

Project Report

Course No: ECE-2216

Course Title: DATABASE SYSTEMS SESSIONAL

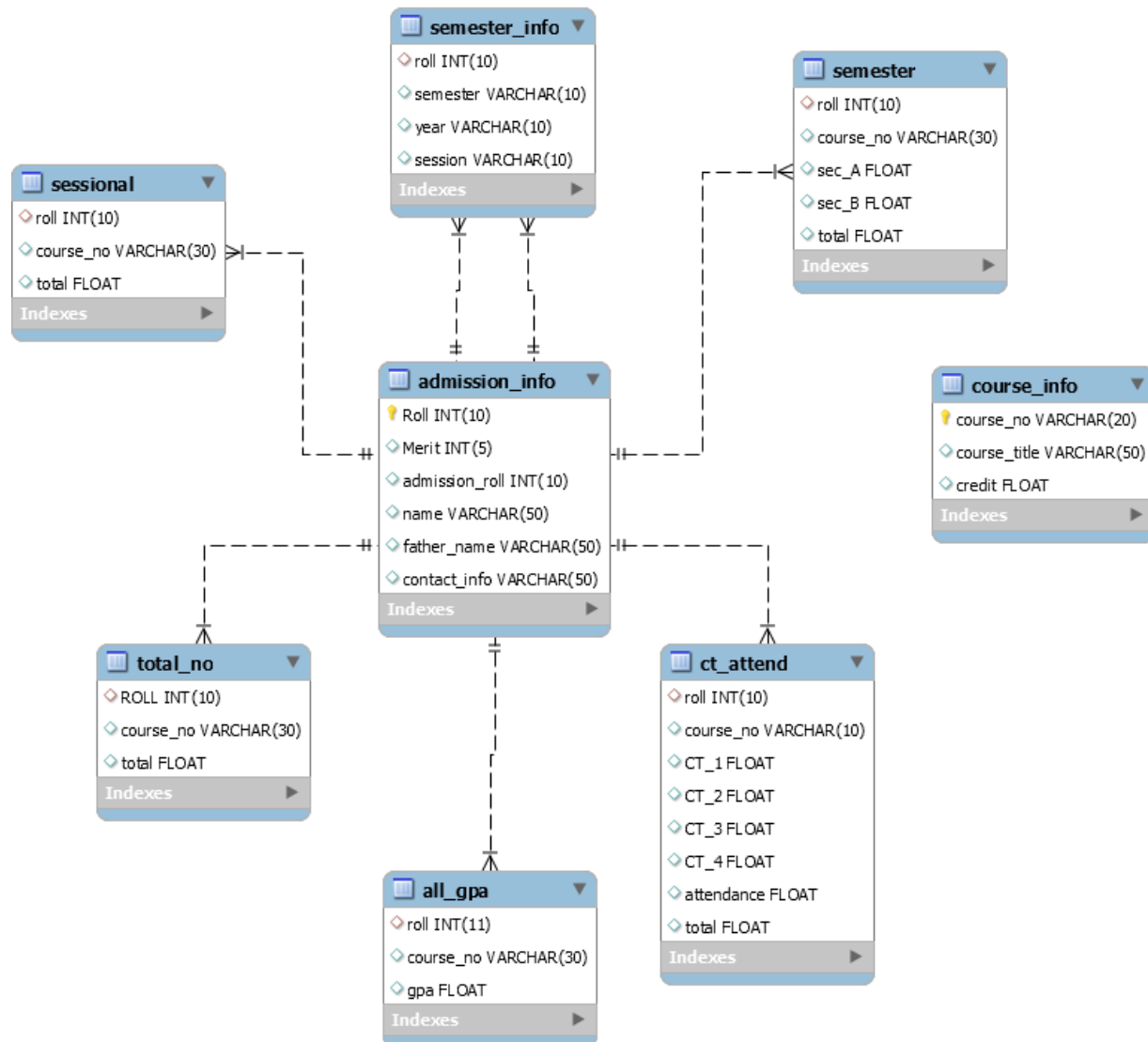
Submitted By:	Submitted To:
Name: TARIKUL ISLAM TAMITI Roll:1610001 Department: ECE RUET	Abdul Matin Muaz Lecturer Department: ECE RUET

Date of Submission: 23/2/201

Project Title : Make a Database for calculating Student GPA with required number of tables.

Introduction : In the way of making this project I used Xampp server, Notepad and Mysql codes to create the required tables. I calculated the sgpa of 5 students from roll 1610001 to 1610005. I at first created database named result_system. There are 9 number of tables and 1 view . In the view the calculated sgpa of the students are shown.

Schema Diagram :

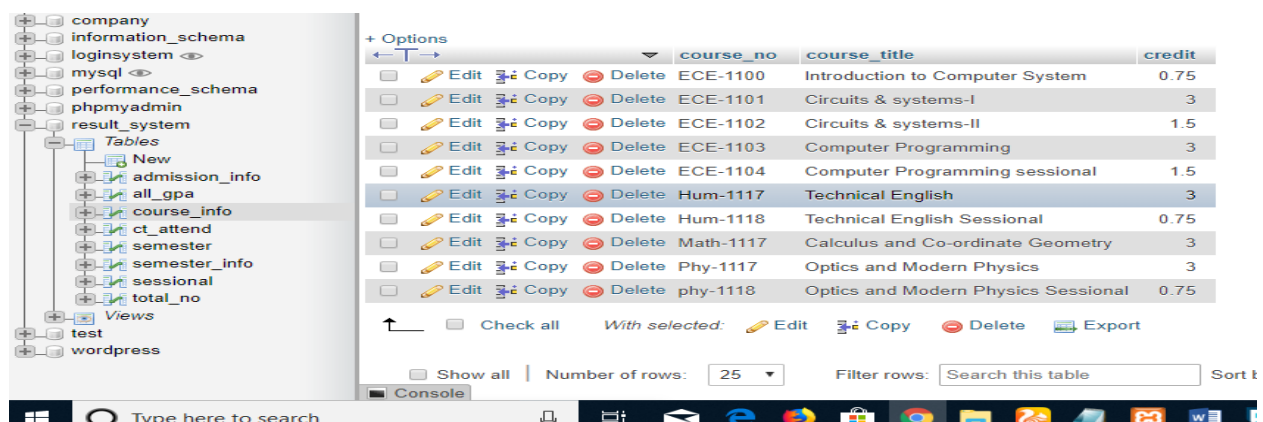


The description of the tables are given bellow:

Table admission_info: In this table the respective student's roll, admission_roll, name, father's name, contact_info are given .The roll of this table is the primary key and will be the foreign key of other tables

	Roll	Merit	admission_roll	name	father_name	contact_info
<input type="checkbox"/> Edit Copy Delete	1610001	1271	8550	Tarikul Islam Tamiti	MD. Abul Kashem	tarik2568@gmail.com
<input type="checkbox"/> Edit Copy Delete	1610002	1228	6549	Shahwat Hasnaine Samin	GM Tafayel Khan	samin1610002@gmail.com
<input type="checkbox"/> Edit Copy Delete	1610003	1471	3005	Nusrat Jahan Tanni	Gias Uddin	tanni03@gmail.com
<input type="checkbox"/> Edit Copy Delete	1610004	1561	3285	Saleh Mohammad shahariar	Shahiar Khan	saleh04@gmail.com
<input type="checkbox"/> Edit Copy Delete	1610005	1355	3435	MD. Faysal Ahmed	Rafsan Jani Khan	faysaal05@gmail.com
<input type="checkbox"/> Edit Copy Delete	1610028	1664	6969	Tahmim Hossain Turjo	MD MOSHAROF HOSSAIN	turjo5050@gmail.com

Table course_info: In this table the course_no ,course_title and credit are given .The course_no is the primary key of this table .



	course_no	course_title	credit
<input type="checkbox"/> Edit Copy Delete	ECE-1100	Introduction to Computer System	0.75
<input type="checkbox"/> Edit Copy Delete	ECE-1101	Circuits & systems-I	3
<input type="checkbox"/> Edit Copy Delete	ECE-1102	Circuits & systems-II	1.5
<input type="checkbox"/> Edit Copy Delete	ECE-1103	Computer Programming	3
<input type="checkbox"/> Edit Copy Delete	ECE-1104	Computer Programming sessional	1.5
<input type="checkbox"/> Edit Copy Delete	Hum-1117	Technical English	3
<input type="checkbox"/> Edit Copy Delete	Hum-1118	Technical English Sessional	0.75
<input type="checkbox"/> Edit Copy Delete	Math-1117	Calculus and Co-ordinate Geometry	3
<input type="checkbox"/> Edit Copy Delete	Phy-1117	Optics and Modern Physics	3
<input type="checkbox"/> Edit Copy Delete	phy-1118	Optics and Modern Physics Sessional	0.75

Table ct_attend: In this table the Class Test number are taken as input. The best 3 of the Class test are taken and the average are calculated and summed with the attendance .The sum is the total of the class performance and will be used in other tables.

Browse

Structure

SQL

Search

Insert

Export

+ Options

roll	course_no	CT_1	CT_2	CT_3	CT_4	attendance	total
1610001	ECE-1101	2	14	11	15	8	21
1610001	ECE-1103	15	8	11	20	7	23
1610001	Math-1117	17	7	10	18	7	20
1610001	Phy-1117	7	17	10	15	7	21
1610001	Hum-1117	17	7	10	18	7	20
1610002	ECE-1101	15	14	1	8	6	19
1610002	ECE-1103	5	14	1	8	6	16
1610002	Math-1117	15	14	1	8	6	19
1610002	Hum-1117	15	14	1	8	6	19
1610002	Phy-1117	15	14	1	8	6	19
1610003	ECE-1101	2	18	1	5	8	17
1610003	ECE-1103	5	14	1	8	6	16
1610003	Math-1117	20	2	1	18	8	21
1610003	Hum-1117	15	14	1	8	6	19
1610003	Phy-1117	15	14	1	8	6	19
1610004	ECE-1101	15	14	1	8	6	19
1610004	ECE-1103	5	14	1	8	6	16
1610004	Math-1117	5	14	1	1	6	13
1610004	Hum-1117	8	14	2	8	6	16
1610004	Phy-1117	15	14	1	8	6	19
1610005	ECE-1101	19	14	1	8	6	20
1610005	ECE-1103	5	14	1	8	6	16
1610005	Math-1117	5	14	1	1	6	13
1610005	Hum-1117	8	14	2	8	6	16
1610005	Phy-1117	15	14	1	8	6	19

Table semester_info: In this table the current year and semester of the respective student is given. The roll is used as the primary key.

+ Options			
roll	semester	year	session
1610001	1	1	2016-17
1610002	1	1	2016-17
1610003	1	1	2016-17
1610004	1	1	2016-17
1610005	1	1	2016-17

Table Sessional :

In this table the total number given to each student for each sessional courses are recorded.

+ Options		
roll	course_no	total
1610001	ECE-1102	56
1610002	ECE-1102	86
1610003	ECE-1102	46
1610004	ECE-1102	87
1610005	ECE-1102	77
1610001	ECE-1104	86
1610002	ECE-1104	75
1610003	ECE-1104	76
1610004	ECE-1104	67
1610005	ECE-1104	73
1610001	HUM-1118	83
1610002	HUM-1118	55
1610003	HUM-1118	76
1610004	HUM-1118	67
1610005	HUM-1118	23
1610001	PHY-1118	81
1610002	PHY-1118	55
1610003	PHY-1118	76
1610004	PHY-1118	46
1610005	PHY-1118	78
1610001	ECE-1100	81
1610002	ECE-1100	55
1610003	ECE-1100	76
1610004	ECE-1100	46
1610005	ECE-1100	78

Table total_no: In this table the total number of all students are recorded . Here the roll is the primary key.

+ Options		
ROLL	course_no	total
1610001	ECE-1101	87
1610002	ECE-1101	60
1610003	ECE-1101	58
1610004	ECE-1101	59
1610005	ECE-1101	76
1610001	ECE-1103	65
1610002	ECE-1103	46
1610003	ECE-1103	58
1610004	ECE-1103	66
1610005	ECE-1103	72
1610001	Math-1117	62
1610002	Math-1117	49
1610003	Math-1117	63
1610004	Math-1117	63
1610005	Math-1117	69
1610001	Hum-1117	62
1610002	Hum-1117	49
1610003	Hum-1117	61
1610004	Hum-1117	66
1610005	Hum-1117	72
1610001	Phy-1117	66
1610002	Phy-1117	59
1610003	Phy-1117	51
1610004	Phy-1117	69
1610005	Phy-1117	75

+ Options

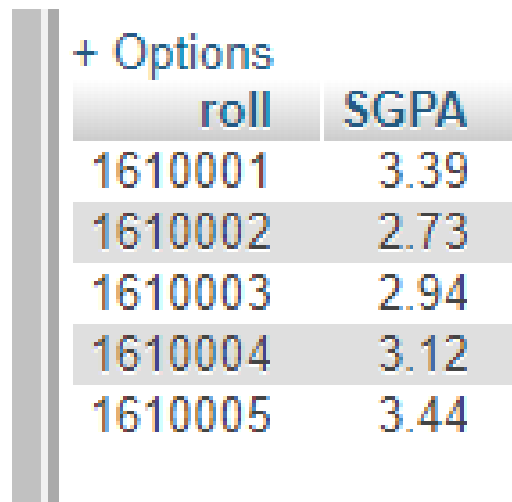
ROLL	course_no	total
1610001	ECE-1102	56
1610002	ECE-1102	86
1610003	ECE-1102	46
1610004	ECE-1102	87
1610005	ECE-1102	77
1610001	ECE-1104	86
1610002	ECE-1104	75
1610003	ECE-1104	76
1610004	ECE-1104	67
1610005	ECE-1104	73
1610001	HUM-1118	83
1610002	HUM-1118	55
1610003	HUM-1118	76
1610004	HUM-1118	67
1610005	HUM-1118	23
1610001	PHY-1118	81
1610002	PHY-1118	55
1610003	PHY-1118	76
1610004	PHY-1118	46
1610005	PHY-1118	78
1610001	ECE-1100	81
1610002	ECE-1100	55
1610003	ECE-1100	76
1610004	ECE-1100	46
1610005	ECE-1100	78

Table all_gpa: In this table the gpa for student along with the courses are calculated and shown.

+ Options

roll	course_no	gpa
1610001	ECE-1101	4
1610002	ECE-1101	3
1610003	ECE-1101	2.75
1610004	ECE-1101	2.75
1610005	ECE-1101	3.75
1610001	ECE-1103	3.25
1610002	ECE-1103	2.25
1610003	ECE-1103	2.75
1610004	ECE-1103	3.25
1610005	ECE-1103	3.5
1610001	Math-1117	3
1610002	Math-1117	2.25
1610003	Math-1117	3
1610004	Math-1117	3
1610005	Math-1117	3.25
1610001	Hum-1117	3
1610002	Hum-1117	2.25
1610003	Hum-1117	3
1610004	Hum-1117	3.25
1610005	Hum-1117	3.5
1610001	Phy-1117	3.25
1610002	Phy-1117	2.75
1610003	Phy-1117	2.5
1610004	Phy-1117	3.25
1610005	Phy-1117	3.75

View sgpa: The total_no and course_no table are inner joined and student's roll with gpa are shown.



The image shows a screenshot of a database view named 'sgpa'. The view displays two columns: 'roll' and 'SGPA'. There are five rows of data, each representing a student's roll number and their corresponding SGPA value. The rows are: 1610001 with SGPA 3.39, 1610002 with SGPA 2.73, 1610003 with SGPA 2.94, 1610004 with SGPA 3.12, and 1610005 with SGPA 3.44. The table has a light gray background with alternating row colors.

roll	SGPA
1610001	3.39
1610002	2.73
1610003	2.94
1610004	3.12
1610005	3.44

Discussion: In this project the output i.e. the result of the students will be shown in the view named sgpa . The students other information will be in the other tables in the of the database result_system. The sgpa of 5 student of 1st year odd semester are calculated . By doing this project I faced many difficulties and thus I tried to solve them by myself. My knowledge in Mysql has increased by doing this project.