CS3120 Database Management Systems Laboratory

Assignment – 4

Due Date - 10/03/2021 11:59 pm

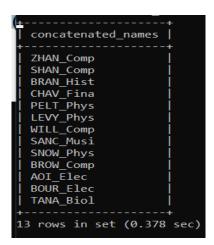
Instructions:

- 1. Take proper screenshots of terminal after execution of each command and paste it below the command given in assignment
- 2. Submit the .pdf file on Moodle
- 3. Submit it in the naming format **<rollnumber_assignment4.pdf>**. Follow the naming format as given, otherwise marks will be deducted.
- 4. Deadline for late submission(with penalty): 11/03/2021 11:59 pm

Assignment:

Write the following queries in SQL, using the university schema.

- 1. Display the department name whose average salary in the year 2010 is greater than 50000.
- 2. (a) Insert a record in the table 'Student' with the following values
 - ID = 'last 4 digits of your institute roll number'
 - Name = 'Your first name'
 - Dept name = 'Comp. Sci.'
 - Total_credits = 12
 - (b) Show students between your credit and topper or least scorer's credit (whichever is farthest) arranged in descending order.
 - (c) Delete the record.
- 3. Display the total salary of all the advisors whose name starts with the letter K.
- 4. Show output as below using string queries:



5. Show output on cross joined section and course table having (ta,at,ka) in building names,CS having course_id of section table and having department from 'Comp. sci.'

course_id	sec_id	semester	year	building	room_number	time_slot_id	course_id	title	dept_name	credits
CS-101	1	Fall	2009	Packard	101	н	CS-101	Intro. to Computer Science		4
CS-101	1	Fall	2009	Packard	101	н	CS-190	Game Design	Comp. Sci.	4
CS-101	1	Fall	2009	Packard	101	н	CS-315	Robotics	Comp. Sci.	
CS-101	1	Fall	2009	Packard	101	н	CS-319	Image Processing	Comp. Sci.	
CS-101	1	Fall	2009	Packard	101	н	CS-347	Database System Concepts	Comp. Sci.	
CS-101	1	Spring	2010	Packard	101	F	CS-101	Intro. to Computer Science	Comp. Sci.	4
CS-101	1	Spring	2010	Packard	101	F	CS-190	Game Design	Comp. Sci.	4
CS-101	1	Spring	2010	Packard	101	F	CS-315	Robotics	Comp. Sci.] 3
CS-101	1	Spring	2010	Packard	101	F	CS-319	Image Processing	Comp. Sci.] 3 [
CS-101	1	Spring	2010	Packard	101	F	CS-347	Database System Concepts	Comp. Sci.] 3 [
CS-190	1	Spring	2009	Taylor	3128	E	CS-101	Intro. to Computer Science	Comp. Sci.	4
CS-190	1	Spring	2009	Taylor	3128	İΕ	CS-190	Game Design	Comp. Sci.	4 1
CS-190	1	Spring	2009	Taylor	3128	İΕ	CS-315	Robotics	Comp. Sci.	j 3 j
CS-190	1	Spring	2009	Taylor	3128	İΕ	CS-319	Image Processing	Comp. Sci.	j 3 j
CS-190	1	Spring	2009	Taylor	3128	İΕ	CS-347	Database System Concepts	Comp. Sci.	
CS-190	2	Spring	2009	Taylor	3128	A	CS-101	Intro. to Computer Science	Comp. Sci.	
CS-190	2	Spring	2009	Taylor	3128	İΑ	CS-190	Game Design	Comp. Sci.	j 4 j
CS-190	2	Spring	2009	Taylor	3128	A	CS-315	Robotics	Comp. Sci.	j 3 j
CS-190	2	Spring	2009	Taylor	3128	i A	CS-319	Image Processing	Comp. Sci.	
CS-190	2	Spring	2009	Taylor	3128	A	CS-347	Database System Concepts	Comp. Sci.	
CS-315	1	Spring	2010	Watson	120	D	CS-101	Intro. to Computer Science		4
CS-315	1	Spring	2010	Watson	120	i D	CS-190	Game Design	Comp. Sci.	j 4 j
CS-315	1	Spring	2010	Watson	120	D	CS-315	Robotics	Comp. Sci.	
CS-315	1	Spring	2010	Watson	120	i D	CS-319	Image Processing	Comp. Sci.	
CS-315	1	Spring	2010	Watson	120	i D	CS-347	Database System Concepts	Comp. Sci.	
CS-319	1	Spring	2010	Watson	100	l B	CS-101	Intro. to Computer Science		
CS-319	1	Spring	2010	Watson	100	l B	CS-190	Game Design	Comp. Sci.	4
CS-319	1	Spring	2010	Watson	100	l B	CS-315	Robotics	Comp. Sci.	j 3 j
CS-319	1	Spring	2010	Watson	100	B	CS-319	Image Processing	Comp. Sci.	
CS-319	1	Spring	2010	Watson	100	l B	CS-347	Database System Concepts	Comp. Sci.	
CS-319	2	Spring	2010	Taylor	3128	i c	CS-101	Intro. to Computer Science	Comp. Sci.	4
CS-319	2	Spring	2010	Taylor	3128	İċ	CS-190	Game Design	Comp. Sci.	
CS-319	2	Spring	2010	Taylor	3128	ič	CS-315	Robotics	Comp. Sci.	i 3 i
CS-319	2	Spring	2010	Taylor	3128	Ċ	CS-319	Image Processing	Comp. Sci.	
CS-319	2	Spring	2010	Taylor	3128	Ċ	CS-347	Database System Concepts	Comp. Sci.	
CS-347	1	Fall	2009	Taylor	3128	A	CS-101	Intro. to Computer Science	Comp. Sci.	
CS-347	1	Fall	2009	Taylor	3128	l A	CS-190	Game Design	Comp. Sci.	1 4
CS-347	1	Fall	2009	Taylor	3128	A	CS-315	Robotics	Comp. Sci.	3
CS-347	1	Fall	2009	Taylor	3128	l A	CS-319	Image Processing	Comp. Sci.	3 1
CS-347	1	Fall	2009	Taylor	3128	l A	CS-319	Database System Concepts	Comp. Sci.	3
+ 40 rows in se			+			+	+	+	+	

- 6. Show name and salary of instructors in finance and biology in descending order of their salary.
- 7. Show all the instructors with salary = Null and instructors with salary = NOT NULL. (HINT: first set salary of 3-4 instructors as NULL).
- 8. Show name, three times repeated name from student table:

Eg. zhang. Zhangzhangzhang

- 9. Show name, length of name and grades of students with grades equal 'A', 'B', 'A-'.
- 10. Show courses where course name has 'comp' in it.