#### LAB # 13:

# PUTTING THE CONCEPTS LEARNT IN THE DATABASE SYSTEMS COURSE TO USE

#### **Objective (aim) of the experiment**

To self test and putting the concepts learnt in database systems course to use by solving the given open-ended problem.

#### **Scoring Rubrics for Lab 13:**

S#	Task	Weightage	Obtained	Signatu re and Date
1	Creating the database and the tables intelligently by examining the data at hand and putting in the constraints logically (particularly the following constraints: unique, primary key, foreign key).	30 %		
2	Creating a script to insert the given data	20 %		
3	Solving the given queries	50 %		
Ea	Total marks obtained in this lab	100%	%	

sec	<u>Sl. No.</u>	Facilities Required	<u>Quantity</u>
	1	System	1
	2	Operating System	Windows 7
	3	DBMS	SQL Server Management Studio
			2012,
			Creately, ERWin, E-draw, Visio

#### **Tasks To Perform**

Here is a summary of the tasks that you must perform.

- **Task 1.** Create an sql file having your roll number as the file name (e.g. '17-10525.sql'). In this file, you must write an sql script that performs the following tasks:
  - a. Create a database titled 'StudentDB'.

b. Look at the data as shown in tabular form (i.e. set of tables) below and create tables accordingly.

## The data for the database (organized into various tables) is as follows:

## **Program**

Programi	Duratio	Description
Programii	Duratio	Description
<u>D</u>	n	
BA	2	Bachelors in Arts
BBA	2	Bachelors in Business
		Administration
BSCS	4	Bachelors in Computer Science
MBA	2	Masters in Business Administration
MCS	2	Masters in Computer Science

## <u>Stude</u>

nt				_		
<u>StdID</u>	FirstNam	LastName	Gende	<u>Progra</u>	EnrollSemest	EnrollYear
	e		r	<u>m</u>	er	
S001	Ab	Rehman	М	BSCS	Spring	2014
S002	Alizeh	Irfan	F	BSCS	Fall	2016
S003	Nehal	Asif	F	BSCS	Spring	2015
S004	Zain	Qureshi	М	BSCS	Spring	2015
S005	Shozab	Khan	М	BSCS	Fall	2014
S006	Sohaib	Asghar	М	BSCS	Fall	2015
S007	Zainab	Ashfaq	F	BSCS	Fall	2015
S008	Ali	Haider	М	BSCS	Spring	2016
S009	ljaz	Malik	М	BBA	Fall	2014
S010	Mujtaba	Ahsan	М	BBA	Spring	2014
S011	Zeeshan	Tariq	М	BBA	Fall	2015
S012	Ayesha	Abid	F	BBA	Spring	2016
S013	Fatima	ljaz	F	BBA	Spring	2016
S014	Ali	Jaffery	М	BBA	Fall	2013
S015	Qasim	Abid	М	BA	Spring	2015
S016	Babak	Ashfaq	М	BA	Fall	2016
S017	Sakina	Abbas	F	BA	Fall	2015
S018	Ailia	Zahra	F	MBA	Spring	2014
S019	Usman	Ilyas	М	MBA	Fall	2014
S020	Amina	Hussain	F	MBA	Spring	2014
S021	Momina	Qureshi	F	MCS	Fall	2014

S022	Christoper	Emmanuelle	М	MCS	Spring	2015
S023	Ali	Malik	М	MCS	Fall	2015

## **Facult**

<u>FacID</u>	FirstNam	LastNam	Specialization
	e	е	
F001	Sarwan	Abbasi	Human Computer
			Interaction
F002	Marshal	Mathers	Artificial Intelligence
F003	Tupac	Shakur	Algorithms
F004	Mike	Shinoda	Pakistan History
F005	Kanye	West	Mass Communication
F006	Dr	Dre	English Literature
F007	Ice	Cube	Economics
F008	Kendrik	Lamar	Management
F009	Rick	Ross	Marketing
F010	Lil	Wayne	Maths
F011	Jay	Z	Physics

## **Cours**

es		
Coursel	CourseName	Program
<u>D</u>		
BUSN121	Micro Economics	BBA
BUSN305	Corporate Governance	BBA
BUSN322	Financial Management	BBA
BUSN361	Ops Excellence	BBA
BUSN460	Business Law	BBA
BUSN554	Entrepreneurship	MBA
BUSN565	Advanced Marketing Skills	MBA
COMP111	Programming II	BSCS
COMP213	Database Systems	BSCS
COMP220	Software Engineering	BSCS
COMP301	Operating Systems	BSCS
COMP302	Theory of Automota	BSCS
COMP303	Algorithms	BSCS
COMP323	Computer Organization	BSCS
COMP650	Digital Signal Processing	MCS
COMP660	Advanced Al	MCS

COMP788	Quantum Computing	MCS			
CSCS100	Intro To Computing	ALL			
ENGL101	Basic WritingSkills	ALL			
ENGL103	Advanced Writing Skills	ALL			
ENGL313	Sociolinguistics	BA			
ENGL315	Poetry I	BA			
MATHS10	Basic Mathematics	ALL			
0					
MATHS10	Calculus	ALL			
3					
MCOM100	Intro to Mass	ALL			
	Communication				
MCOM301	Press Laws And Ethics	BA			
PHYS101	Physics I	ALL			
PHYS103	Physics II	ALL			
ETATIPSeBasic Statistics ALL					

Section					
CSID	CourseID	Semester	<u>FacID</u>	Sectio	Room
				n	
CS001	COMP213	Spring 2017	F001	Α	S219
CS002	COMP213	Spring 2017	F003	В	S317
CS003	COMP303	Spring 2017	F003	Α	S218
CS004	COMP303	Spring 2017	F003	В	S216
CS005	COMP302	Spring 2017	F001	Α	S417
CS006	COMP302	Spring 2017	F003	В	S412
CS007	COMP111	Spring 2017	F001	Α	S218
CS008	COMP111	Spring 2017	F001	В	S320
CS009	COMP220	Spring 2017	F001	Α	S316
CS010	COMP220	Spring 2017	F002	В	S318
CS011	COMP301	Spring 2017	F003	Α	S319
CS012	COMP301	Spring 2017	F002	В	S316
CS013	COMP323	Spring 2017	F002	Α	S216
CS014	COMP323	Spring 2017	F002	В	S318
CS015	COMP788	Spring 2017	F001	Α	S217
CS016	COMP650	Spring 2017	F002	Α	S412
CS017	COMP660	Spring 2017	F002	Α	S216
CS018	BUSN121	Spring 2017	F008	Α	S417
CS019	BUSN121	Spring 2017	F009	В	S318
CS020	BUSN322	Spring 2017	F007	Α	S318
CS021	BUSN322	Spring 2017	F009	В	S320
CS022	BUSN361	Spring 2017	F009	Α	S313
CS023	BUSN361	Spring 2017	F009	В	S319
CS024	BUSN460	Spring 2017	F007	А	S318

CS025         BUSN460         Spring 2017         F009         B         S412           CS026         BUSN305         Spring 2017         F007         A         S219           CS027         BUSN305         Spring 2017         F007         B         S218           CS028         BUSN5654         Spring 2017         F008         A         S412           CS029         BUSN5655         Spring 2017         F006         A         S218           CS030         ENGL313         Spring 2017         F006         A         S318           CS031         ENGL315         Spring 2017         F006         A         S320           CS032         ENGL315         Spring 2017         F006         B         S216           CS033         ENGL315         Spring 2017         F006         B         S217           CS034         MCOM301         Spring 2017         F005         A         E319           CS035         MCOM301         Spring 2017         F006         A         E319           CS036         ENGL101         Spring 2017         F006         A         E219           CS038         ENGL103         Spring 2017         F006         A						_
CS027         BUSN305         Spring 2017         F007         B         S218           CS028         BUSN554         Spring 2017         F008         A         S412           CS029         BUSN565         Spring 2017         F007         A         S218           CS030         ENGL313         Spring 2017         F006         A         S318           CS031         ENGL315         Spring 2017         F006         B         S316           CS032         ENGL315         Spring 2017         F006         A         S320           CS033         ENGL315         Spring 2017         F006         B         S216           CS034         MCOM301         Spring 2017         F005         A         E319           CS035         MCOM301         Spring 2017         F006         A         E319           CS036         ENGL101         Spring 2017         F006         A         E319           CS037         ENGL101         Spring 2017         F006         A         E219           CS038         ENGL103         Spring 2017         F006         A         E219           CS039         MCOM100         Spring 2017         F010         A         <	CS025	BUSN460	Spring 2017	F009	В	S412
CS028         BUSN554         Spring 2017         F008         A         S412           CS029         BUSN565         Spring 2017         F007         A         S218           CS030         ENGL313         Spring 2017         F006         A         S318           CS031         ENGL315         Spring 2017         F006         B         S316           CS032         ENGL315         Spring 2017         F006         A         S320           CS033         ENGL315         Spring 2017         F006         B         S216           CS034         MCOM301         Spring 2017         F005         A         E319           CS035         MCOM301         Spring 2017         F005         B         E317           CS036         ENGL101         Spring 2017         F006         A         E319           CS036         ENGL101         Spring 2017         F006         A         E319           CS038         ENGL101         Spring 2017         F006         A         E219           CS039         MCOM100         Spring 2017         F006         A         E320           CS040         MATHS100         Spring 2017         F010         A						
CS029         BUSN565         Spring 2017         F007         A         S218           CS030         ENGL313         Spring 2017         F006         A         S318           CS031         ENGL313         Spring 2017         F006         B         S316           CS032         ENGL315         Spring 2017         F006         A         S320           CS033         ENGL315         Spring 2017         F006         B         S216           CS034         MCOM301         Spring 2017         F005         A         E319           CS035         MCOM301         Spring 2017         F006         A         E319           CS036         ENGL101         Spring 2017         F006         A         E319           CS037         ENGL101         Spring 2017         F006         A         E319           CS038         ENGL103         Spring 2017         F006         A         E219           CS039         MCOM100         Spring 2017         F006         A         E320           CS040         MATHS100         Spring 2017         F010         A         S412           CS041         MATHS103         Spring 2017         F010         A						
CS030         ENGL313         Spring 2017         F006         A         S318           CS031         ENGL313         Spring 2017         F006         B         S316           CS032         ENGL315         Spring 2017         F006         A         S320           CS033         ENGL315         Spring 2017         F006         B         S216           CS034         MCOM301         Spring 2017         F005         A         E319           CS035         MCOM301         Spring 2017         F006         A         E319           CS036         ENGL101         Spring 2017         F006         A         E319           CS037         ENGL101         Spring 2017         F006         A         E319           CS038         ENGL103         Spring 2017         F006         A         E219           CS039         MCOM100         Spring 2017         F006         A         E219           CS040         MATHS100         Spring 2017         F010         A         S412           CS041         MATHS103         Spring 2017         F010         A         S313           CS042         MATHS103         Spring 2017         F010         A	CS028	BUSN554		F008	Α	
CS031         ENGL313         Spring 2017         F006         B         S316           CS032         ENGL315         Spring 2017         F006         A         S320           CS033         ENGL315         Spring 2017         F006         B         S216           CS034         MCOM301         Spring 2017         F005         A         E319           CS035         MCOM301         Spring 2017         F006         A         E319           CS036         ENGL101         Spring 2017         F006         A         E319           CS037         ENGL101         Spring 2017         F006         A         E319           CS038         ENGL103         Spring 2017         F006         A         E219           CS039         MCOM100         Spring 2017         F006         A         E320           CS040         MATHS100         Spring 2017         F010         A         S412           CS041         MATHS103         Spring 2017         F010         A         S313           CS042         MATHS103         Spring 2017         F010         A         S313           CS043         STAT101         Spring 2017         F010         A	CS029	BUSN565	Spring 2017	F007	Α	S218
CS032         ENGL315         Spring 2017         F006         A         S320           CS033         ENGL315         Spring 2017         F006         B         S216           CS034         MCOM301         Spring 2017         F005         A         E319           CS035         MCOM301         Spring 2017         F006         A         E319           CS036         ENGL101         Spring 2017         F006         A         E319           CS037         ENGL101         Spring 2017         F006         A         E319           CS038         ENGL103         Spring 2017         F006         A         E219           CS039         MCOM100         Spring 2017         F006         A         E320           CS040         MATHS100         Spring 2017         F010         A         S412           CS041         MATHS103         Spring 2017         F010         A         S313           CS042         MATHS103         Spring 2017         F010         A         S313           CS043         STAT101         Spring 2017         F010         A         S313           CS044         STAT101         Spring 2017         F011         A	CS030	ENGL313	Spring 2017	F006	Α	S318
CS033         ENGL315         Spring 2017         F006         B         S216           CS034         MCOM301         Spring 2017         F005         A         E319           CS035         MCOM301         Spring 2017         F005         B         E317           CS036         ENGL101         Spring 2017         F006         A         E319           CS037         ENGL101         Spring 2017         F006         B         E416           CS038         ENGL103         Spring 2017         F006         A         E219           CS039         MCOM100         Spring 2017         F005         A         E320           CS040         MATHS100         Spring 2017         F010         A         S412           CS041         MATHS103         Spring 2017         F010         A         S313           CS042         MATHS103         Spring 2017         F010         A         S313           CS043         STAT101         Spring 2017         F010         A         S313           CS044         STAT101         Spring 2017         F010         B         S319           CS045         PHYS101         Spring 2017         F011         A	CS031	ENGL313	Spring 2017	F006	В	S316
CS034         MCOM301         Spring 2017         F005         A         E319           CS035         MCOM301         Spring 2017         F005         B         E317           CS036         ENGL101         Spring 2017         F006         A         E319           CS037         ENGL101         Spring 2017         F006         B         E416           CS038         ENGL103         Spring 2017         F006         A         E219           CS039         MCOM100         Spring 2017         F005         A         E320           CS040         MATHS100         Spring 2017         F010         A         S412           CS041         MATHS100         Spring 2017         F010         A         S313           CS042         MATHS103         Spring 2017         F010         A         S313           CS043         STAT101         Spring 2017         F010         A         S313           CS044         STAT101         Spring 2017         F010         B         S319           CS045         PHYS101         Spring 2017         F011         A         S313           CS046         PHYS103         Spring 2017         F011         A	CS032	ENGL315	Spring 2017	F006	Α	S320
CS035         MCOM301         Spring 2017         F005         B         E317           CS036         ENGL101         Spring 2017         F006         A         E319           CS037         ENGL101         Spring 2017         F006         B         E416           CS038         ENGL103         Spring 2017         F006         A         E219           CS039         MCOM100         Spring 2017         F005         A         E320           CS040         MATHS100         Spring 2017         F010         A         S412           CS041         MATHS100         Spring 2017         F010         B         S219           CS042         MATHS103         Spring 2017         F010         A         S313           CS042         MATHS103         Spring 2017         F010         A         S313           CS043         STAT101         Spring 2017         F010         A         S313           CS044         STAT101         Spring 2017         F010         B         S319           CS045         PHYS101         Spring 2017         F011         A         S313           CS046         PHYS103         Spring 2017         F011         A	CS033	ENGL315	Spring 2017	F006	В	S216
CS036         ENGL101         Spring 2017         F006         A         E319           CS037         ENGL101         Spring 2017         F006         B         E416           CS038         ENGL103         Spring 2017         F006         A         E219           CS039         MCOM100         Spring 2017         F005         A         E320           CS040         MATHS100         Spring 2017         F010         A         S412           CS041         MATHS103         Spring 2017         F010         B         S219           CS042         MATHS103         Spring 2017         F010         A         S313           CS043         STAT101         Spring 2017         F010         A         S313           CS044         STAT101         Spring 2017         F010         B         S319           CS045         PHYS101         Spring 2017         F011         A         S313           CS045         PHYS101         Spring 2017         F011         A         S313           CS046         PHYS103         Spring 2017         F011         A         S316           CS047         PHYS103         Spring 2017         F001         A	CS034	MCOM301	Spring 2017	F005	Α	E319
CS037         ENGL101         Spring 2017         F006         B         E416           CS038         ENGL103         Spring 2017         F006         A         E219           CS039         MCOM100         Spring 2017         F005         A         E320           CS040         MATHS100         Spring 2017         F010         A         S412           CS041         MATHS103         Spring 2017         F010         B         S219           CS042         MATHS103         Spring 2017         F010         A         S313           CS043         STAT101         Spring 2017         F010         A         S313           CS044         STAT101         Spring 2017         F010         B         S319           CS045         PHYS101         Spring 2017         F011         A         S313           CS046         PHYS103         Spring 2017         F011         A         S316           CS047         PHYS103         Spring 2017         F001         A         S412           CS048         CSCS100         Spring 2017         F001         A         S412           CS049         CSCS100         Spring 2017         F003         B	CS035	MCOM301	Spring 2017	F005	В	E317
CS038         ENGL103         Spring 2017         F006         A         E219           CS039         MCOM100         Spring 2017         F005         A         E320           CS040         MATHS100         Spring 2017         F010         A         S412           CS041         MATHS100         Spring 2017         F010         B         S219           CS042         MATHS103         Spring 2017         F010         A         S313           CS043         STAT101         Spring 2017         F010         A         S313           CS044         STAT101         Spring 2017         F010         B         S319           CS045         PHYS101         Spring 2017         F011         A         S313           CS046         PHYS103         Spring 2017         F011         B         S412           CS047         PHYS103         Spring 2017         F001         A         S412           CS048         CSCS100         Spring 2017         F001         A         S412           CS049         CSCS100         Spring 2017         F003         B         S316           CS051         CSCS100         Spring 2017         F003         D	CS036	ENGL101	Spring 2017	F006	Α	E319
CS039         MCOM100         Spring 2017         F005         A         E320           CS040         MATHS100         Spring 2017         F010         A         S412           CS041         MATHS100         Spring 2017         F010         B         S219           CS042         MATHS103         Spring 2017         F010         A         S313           CS043         STAT101         Spring 2017         F010         A         S313           CS044         STAT101         Spring 2017         F010         B         S319           CS045         PHYS101         Spring 2017         F011         A         S313           CS046         PHYS103         Spring 2017         F011         B         S412           CS047         PHYS103         Spring 2017         F001         A         S412           CS048         CSCS100         Spring 2017         F001         A         S412           CS049         CSCS100         Spring 2017         F003         B         S316           CS050         CSCS100         Spring 2017         F003         D         S316           CS051         CSCS100         Spring 2017         F003         E	CS037	ENGL101	Spring 2017	F006	В	E416
CS040         MATHS100         Spring 2017         F010         A         S412           CS041         MATHS100         Spring 2017         F010         B         S219           CS042         MATHS103         Spring 2017         F010         A         S313           CS043         STAT101         Spring 2017         F010         A         S313           CS044         STAT101         Spring 2017         F010         B         S319           CS045         PHYS101         Spring 2017         F011         A         S313           CS046         PHYS101         Spring 2017         F011         B         S412           CS047         PHYS103         Spring 2017         F001         A         S412           CS048         CSCS100         Spring 2017         F001         A         S412           CS049         CSCS100         Spring 2017         F003         B         S316           CS051         CSCS100         Spring 2017         F003         D         S316           CS051         CSCS100         Spring 2017         F003         E         S316           CS052         CSCS100         Spring 2017         F003         E	CS038	ENGL103	Spring 2017	F006	Α	E219
CS041         MATHS100         Spring 2017         F010         B         S219           CS042         MATHS103         Spring 2017         F010         A         S313           CS043         STAT101         Spring 2017         F010         A         S313           CS044         STAT101         Spring 2017         F010         B         S319           CS045         PHYS101         Spring 2017         F011         A         S313           CS046         PHYS101         Spring 2017         F011         B         S412           CS047         PHYS103         Spring 2017         F011         A         S316           CS048         CSCS100         Spring 2017         F001         A         S412           CS049         CSCS100         Spring 2017         F003         B         S316           CS050         CSCS100         Spring 2017         F003         D         S316           CS051         CSCS100         Spring 2017         F003         E         S316           CS052         CSCS100         Spring 2017         F003         E         S316           CS053         CSCS100         Spring 2017         F003         B	CS039	MCOM100	Spring 2017	F005	Α	E320
CS042         MATHS103         Spring 2017         F010         A         S313           CS043         STAT101         Spring 2017         F010         A         S313           CS044         STAT101         Spring 2017         F010         B         S319           CS045         PHYS101         Spring 2017         F011         A         S313           CS046         PHYS101         Spring 2017         F011         B         S412           CS047         PHYS103         Spring 2017         F011         A         S316           CS048         CSCS100         Spring 2017         F001         A         S412           CS049         CSCS100         Spring 2017         F003         B         S316           CS050         CSCS100         Spring 2017         F003         C         S316           CS051         CSCS100         Spring 2017         F003         D         S316           CS052         CSCS100         Spring 2017         F003         E         S316           CS053         CSCS100         Spring 2017         F003         F         S316           CS054         COMP213         Fall 2017         F003         B <t< td=""><td>CS040</td><td>MATHS100</td><td>Spring 2017</td><td>F010</td><td>А</td><td>S412</td></t<>	CS040	MATHS100	Spring 2017	F010	А	S412
CS043         STAT101         Spring 2017         F010         A         S313           CS044         STAT101         Spring 2017         F010         B         S319           CS045         PHYS101         Spring 2017         F011         A         S313           CS046         PHYS101         Spring 2017         F011         B         S412           CS047         PHYS103         Spring 2017         F011         A         S316           CS048         CSCS100         Spring 2017         F001         A         S412           CS049         CSCS100         Spring 2017         F003         B         S316           CS050         CSCS100         Spring 2017         F003         C         S316           CS051         CSCS100         Spring 2017         F003         D         S316           CS052         CSCS100         Spring 2017         F003         E         S316           CS053         CSCS100         Spring 2017         F003         F         S316           CS054         COMP213         Fall 2017         F003         A         S320           CS055         COMP302         Fall 2017         F001         A         S	CS041	MATHS100	Spring 2017	F010	В	S219
CS044         STAT101         Spring 2017         F010         B         S319           CS045         PHYS101         Spring 2017         F011         A         S313           CS046         PHYS101         Spring 2017         F011         B         S412           CS047         PHYS103         Spring 2017         F011         A         S316           CS048         CSCS100         Spring 2017         F001         A         S412           CS049         CSCS100         Spring 2017         F003         B         S316           CS050         CSCS100         Spring 2017         F003         C         S316           CS051         CSCS100         Spring 2017         F003         D         S316           CS052         CSCS100         Spring 2017         F003         E         S316           CS053         CSCS100         Spring 2017         F003         E         S316           CS054         COMP213         Fall 2017         F003         A         S320           CS055         COMP213         Fall 2017         F001         A         S417           CS056         COMP302         Fall 2017         F001         A         S21	CS042	MATHS103	Spring 2017	F010	Α	S313
CS044         STAT101         Spring 2017         F010         B         S319           CS045         PHYS101         Spring 2017         F011         A         S313           CS046         PHYS101         Spring 2017         F011         B         S412           CS047         PHYS103         Spring 2017         F011         A         S316           CS048         CSCS100         Spring 2017         F001         A         S412           CS049         CSCS100         Spring 2017         F003         B         S316           CS050         CSCS100         Spring 2017         F003         C         S316           CS051         CSCS100         Spring 2017         F003         D         S316           CS052         CSCS100         Spring 2017         F003         E         S316           CS053         CSCS100         Spring 2017         F003         E         S316           CS054         COMP213         Fall 2017         F003         A         S320           CS055         COMP213         Fall 2017         F001         A         S417           CS056         COMP302         Fall 2017         F001         A         S21	CS043	STAT101	Spring 2017	F010	Α	S313
CS046         PHYS101         Spring 2017         F011         B         S412           CS047         PHYS103         Spring 2017         F011         A         S316           CS048         CSCS100         Spring 2017         F001         A         S412           CS049         CSCS100         Spring 2017         F003         B         S316           CS050         CSCS100         Spring 2017         F003         C         S316           CS051         CSCS100         Spring 2017         F003         D         S316           CS052         CSCS100         Spring 2017         F003         E         S316           CS053         CSCS100         Spring 2017         F003         E         S316           CS053         CSCS100         Spring 2017         F003         F         S316           CS054         COMP213         Fall 2017         F003         A         S320           CS055         COMP213         Fall 2017         F001         A         S417           CS057         COMP302         Fall 2017         F001         A         S217           CS058         COMP303         Fall 2017         F001         A         S217<	CS044	STAT101	Spring 2017	F010	В	S319
CS047         PHYS103         Spring 2017         F011         A         S316           CS048         CSCS100         Spring 2017         F001         A         S412           CS049         CSCS100         Spring 2017         F003         B         S316           CS050         CSCS100         Spring 2017         F003         C         S316           CS051         CSCS100         Spring 2017         F003         D         S316           CS052         CSCS100         Spring 2017         F003         E         S316           CS053         CSCS100         Spring 2017         F003         F         S316           CS054         COMP213         Fall 2017         F003         A         S320           CS055         COMP213         Fall 2017         F003         B         S216           CS056         COMP302         Fall 2017         F001         A         S417           CS057         COMP302         Fall 2017         F001         A         S217           CS058         COMP303         Fall 2017         F001         A         S217           CS060         COMP111         Fall 2017         F002         B         S313	CS045	PHYS101	Spring 2017	F011	Α	S313
CS048         CSCS100         Spring 2017         F001         A         S412           CS049         CSCS100         Spring 2017         F003         B         S316           CS050         CSCS100         Spring 2017         F003         C         S316           CS051         CSCS100         Spring 2017         F003         D         S316           CS052         CSCS100         Spring 2017         F003         E         S316           CS053         CSCS100         Spring 2017         F003         F         S316           CS054         COMP213         Fall 2017         F003         A         S320           CS055         COMP213         Fall 2017         F003         B         S216           CS056         COMP302         Fall 2017         F001         A         S417           CS057         COMP302         Fall 2017         F001         A         S217           CS058         COMP303         Fall 2017         F001         A         S217           CS060         COMP111         Fall 2017         F001         A         S417           CS061         COMP220         Fall 2017         F002         A         S217	CS046	PHYS101	Spring 2017	F011	В	S412
CS049         CSCS100         Spring 2017         F003         B         S316           CS050         CSCS100         Spring 2017         F003         C         S316           CS051         CSCS100         Spring 2017         F003         D         S316           CS052         CSCS100         Spring 2017         F003         E         S316           CS053         CSCS100         Spring 2017         F003         F         S316           CS054         COMP213         Fall 2017         F003         A         S320           CS055         COMP213         Fall 2017         F003         B         S216           CS056         COMP302         Fall 2017         F001         A         S417           CS057         COMP302         Fall 2017         F003         B         S412           CS058         COMP303         Fall 2017         F001         A         S217           CS059         COMP303         Fall 2017         F001         A         S417           CS060         COMP111         Fall 2017         F002         B         S313           CS062         COMP220         Fall 2017         F001         B         S217	CS047	PHYS103	Spring 2017	F011	Α	S316
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CS051         CSCS100         Spring 2017         F003         D         S316           CS052         CSCS100         Spring 2017         F003         E         S316           CS053         CSCS100         Spring 2017         F003         F         S316           CS054         COMP213         Fall 2017         F003         A         S320           CS055         COMP213         Fall 2017         F003         B         S216           CS056         COMP302         Fall 2017         F001         A         S417           CS057         COMP302         Fall 2017         F003         B         S412           CS058         COMP303         Fall 2017         F001         A         S217           CS059         COMP303         Fall 2017         F003         B         S218           CS060         COMP111         Fall 2017         F001         A         S417           CS061         COMP220         Fall 2017         F002         A         S217           CS063         COMP220         Fall 2017         F001         B         S320	CS049	CSCS100	Spring 2017	F003	В	S316
CS052         CSCS100         Spring 2017         F003         E         S316           CS053         CSCS100         Spring 2017         F003         F         S316           CS054         COMP213         Fall 2017         F003         A         S320           CS055         COMP213         Fall 2017         F003         B         S216           CS056         COMP302         Fall 2017         F001         A         S417           CS057         COMP302         Fall 2017         F003         B         S412           CS058         COMP303         Fall 2017         F001         A         S217           CS059         COMP303         Fall 2017         F003         B         S218           CS060         COMP111         Fall 2017         F001         A         S417           CS061         COMP111         Fall 2017         F002         B         S313           CS062         COMP220         Fall 2017         F001         B         S217           CS063         COMP220         Fall 2017         F001         B         S320	CS050	CSCS100	Spring 2017	F003	С	S316
CS053         CSCS100         Spring 2017         F003         F         S316           CS054         COMP213         Fall 2017         F003         A         S320           CS055         COMP213         Fall 2017         F003         B         S216           CS056         COMP302         Fall 2017         F001         A         S417           CS057         COMP302         Fall 2017         F003         B         S412           CS058         COMP303         Fall 2017         F001         A         S217           CS059         COMP303         Fall 2017         F003         B         S218           CS060         COMP111         Fall 2017         F001         A         S417           CS061         COMP111         Fall 2017         F002         B         S313           CS062         COMP220         Fall 2017         F001         B         S217           CS063         COMP220         Fall 2017         F001         B         S320	CS051	CSCS100	Spring 2017	F003	D	S316
CS054         COMP213         Fall 2017         F003         A         S320           CS055         COMP213         Fall 2017         F003         B         S216           CS056         COMP302         Fall 2017         F001         A         S417           CS057         COMP302         Fall 2017         F003         B         S412           CS058         COMP303         Fall 2017         F001         A         S217           CS059         COMP303         Fall 2017         F003         B         S218           CS060         COMP111         Fall 2017         F001         A         S417           CS061         COMP111         Fall 2017         F002         B         S313           CS062         COMP220         Fall 2017         F001         B         S217           CS063         COMP220         Fall 2017         F001         B         S320	CS052	CSCS100	Spring 2017	F003	Е	S316
CS055         COMP213         Fall 2017         F003         B         S216           CS056         COMP302         Fall 2017         F001         A         S417           CS057         COMP302         Fall 2017         F003         B         S412           CS058         COMP303         Fall 2017         F001         A         S217           CS059         COMP303         Fall 2017         F003         B         S218           CS060         COMP111         Fall 2017         F001         A         S417           CS061         COMP111         Fall 2017         F002         B         S313           CS062         COMP220         Fall 2017         F001         B         S217           CS063         COMP220         Fall 2017         F001         B         S320	CS053	CSCS100	Spring 2017	F003	F	S316
CS056         COMP302         Fall 2017         F001         A         S417           CS057         COMP302         Fall 2017         F003         B         S412           CS058         COMP303         Fall 2017         F001         A         S217           CS059         COMP303         Fall 2017         F003         B         S218           CS060         COMP111         Fall 2017         F001         A         S417           CS061         COMP111         Fall 2017         F002         B         S313           CS062         COMP220         Fall 2017         F001         B         S217           CS063         COMP220         Fall 2017         F001         B         S320	CS054	COMP213	Fall 2017	F003	Α	S320
CS057         COMP302         Fall 2017         F003         B         S412           CS058         COMP303         Fall 2017         F001         A         S217           CS059         COMP303         Fall 2017         F003         B         S218           CS060         COMP111         Fall 2017         F001         A         S417           CS061         COMP111         Fall 2017         F002         B         S313           CS062         COMP220         Fall 2017         F002         A         S217           CS063         COMP220         Fall 2017         F001         B         S320	CS055	COMP213	Fall 2017	F003	В	S216
CS058         COMP303         Fall 2017         F001         A         S217           CS059         COMP303         Fall 2017         F003         B         S218           CS060         COMP111         Fall 2017         F001         A         S417           CS061         COMP111         Fall 2017         F002         B         S313           CS062         COMP220         Fall 2017         F002         A         S217           CS063         COMP220         Fall 2017         F001         B         S320	CS056	COMP302	Fall 2017	F001	А	S417
CS059         COMP303         Fall 2017         F003         B         S218           CS060         COMP111         Fall 2017         F001         A         S417           CS061         COMP111         Fall 2017         F002         B         S313           CS062         COMP220         Fall 2017         F002         A         S217           CS063         COMP220         Fall 2017         F001         B         S320	CS057	COMP302	Fall 2017	F003	В	S412
CS060         COMP111         Fall 2017         F001         A         S417           CS061         COMP111         Fall 2017         F002         B         S313           CS062         COMP220         Fall 2017         F002         A         S217           CS063         COMP220         Fall 2017         F001         B         S320	CS058	COMP303	Fall 2017	F001	Α	S217
CS061         COMP111         Fall 2017         F002         B         S313           CS062         COMP220         Fall 2017         F002         A         S217           CS063         COMP220         Fall 2017         F001         B         S320	CS059	COMP303	Fall 2017	F003	В	S218
CS062         COMP220         Fall 2017         F002         A         S217           CS063         COMP220         Fall 2017         F001         B         S320	CS060	COMP111	Fall 2017	F001	Α	S417
CS063 COMP220 Fall 2017 F001 B S320	CS061	COMP111	Fall 2017	F002	В	S313
	CS062	COMP220	Fall 2017	F002	Α	S217
CS064 COMP301 Fall 2017 F001 A S417	CS063	COMP220	Fall 2017	F001	В	S320
		COMP301	Fall 2017		Α	S417
CS065 COMP301 Fall 2017 F002 B S320		COMP301	Fall 2017	F002	В	S320
CS066 COMP323 Fall 2017 F001 A S319					Α	

CS066         COMP323         Fall 2017         F001         B         S319           CS068         COMP688         Fall 2017         F003         A         S219           CS069         COMP660         Fall 2017         F001         A         S412           CS070         COMP660         Fall 2017         F003         A         S416           CS071         BUSN121         Fall 2017         F008         A         S412           CS072         BUSN121         Fall 2017         F007         A         S219           CS073         BUSN322         Fall 2017         F009         B         S219           CS074         BUSN322         Fall 2017         F009         B         S219           CS075         BUSN361         Fall 2017         F009         A         S313           CS076         BUSN361         Fall 2017         F009         B         S219           CS077         BUSN460         Fall 2017         F009         B         S316           CS078         BUSN305         Fall 2017         F009         A         S318           CS080         BUSN554         Fall 2017         F007         A         S313		1				1
CS069         COMP650         Fall 2017         F001         A         S412           CS070         COMP660         Fall 2017         F003         A         S416           CS071         BUSN121         Fall 2017         F008         A         S412           CS072         BUSN121         Fall 2017         F007         B         S319           CS073         BUSN322         Fall 2017         F009         B         S219           CS074         BUSN322         Fall 2017         F009         B         S219           CS075         BUSN361         Fall 2017         F009         A         S313           CS076         BUSN361         Fall 2017         F009         B         S219           CS077         BUSN460         Fall 2017         F009         B         S219           CS078         BUSN305         Fall 2017         F009         B         S316           CS079         BUSN305         Fall 2017         F007         A         S318           CS080         BUSN554         Fall 2017         F007         A         S313           CS081         BUSN565         Fall 2017         F006         A         S317	CS067	COMP323	Fall 2017	F001	В	S319
CS070         COMP660         Fall 2017         F003         A         S416           CS071         BUSN121         Fall 2017         F008         A         S412           CS072         BUSN121         Fall 2017         F007         B         S319           CS073         BUSN322         Fall 2017         F009         A         S219           CS074         BUSN361         Fall 2017         F009         B         S219           CS075         BUSN361         Fall 2017         F009         A         S313           CS076         BUSN361         Fall 2017         F009         B         S219           CS077         BUSN460         Fall 2017         F008         A         S317           CS078         BUSN460         Fall 2017         F009         B         S316           CS079         BUSN305         Fall 2017         F009         A         S318           CS080         BUSN305         Fall 2017         F007         A         S313           CS081         BUSN565         Fall 2017         F007         A         S313           CS081         BUSN565         Fall 2017         F006         A         S217						
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CS074         BUSN322         Fall 2017         F009         B         S219           CS075         BUSN361         Fall 2017         F009         A         S313           CS076         BUSN361         Fall 2017         F009         B         S219           CS077         BUSN460         Fall 2017         F008         A         S317           CS078         BUSN460         Fall 2017         F009         B         S316           CS079         BUSN305         Fall 2017         F009         A         S318           CS080         BUSN305         Fall 2017         F007         A         S313           CS081         BUSN554         Fall 2017         F007         A         S313           CS082         BUSN565         Fall 2017         F009         A         S417           CS083         ENGL313         Fall 2017         F006         A         S320           CS084         ENGL315         Fall 2017         F006         B         S319           CS085         ENGL315         Fall 2017         F006         A         S217           CS086         ENGL315         Fall 2017         F006         B         E318	CS072	BUSN121	Fall 2017	F007	В	
CS075         BUSN361         Fall 2017         F009         A         S313           CS076         BUSN361         Fall 2017         F009         B         S219           CS077         BUSN460         Fall 2017         F008         A         S317           CS078         BUSN460         Fall 2017         F009         B         S316           CS079         BUSN305         Fall 2017         F009         A         S318           CS080         BUSN305         Fall 2017         F007         B         S217           CS081         BUSN554         Fall 2017         F007         A         S313           CS082         BUSN565         Fall 2017         F009         A         S417           CS083         ENGL313         Fall 2017         F006         A         S320           CS084         ENGL313         Fall 2017         F006         B         S319           CS085         ENGL315         Fall 2017         F006         A         S217           CS086         ENGL315         Fall 2017         F006         B         S219           CS087         MCOM301         Fall 2017         F005         A         E318				F007	Α	
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CS079         BUSN305         Fall 2017         F009         A         S318           CS080         BUSN305         Fall 2017         F007         B         S217           CS081         BUSN554         Fall 2017         F007         A         S313           CS082         BUSN565         Fall 2017         F009         A         S417           CS083         ENGL313         Fall 2017         F006         A         S320           CS084         ENGL313         Fall 2017         F006         B         S319           CS085         ENGL315         Fall 2017         F006         A         S217           CS086         ENGL315         Fall 2017         F006         B         S219           CS087         MCOM301         Fall 2017         F005         A         E318           CS088         MCOM301         Fall 2017         F005         B         E317           CS089         ENGL101         Fall 2017         F006         A         E216           CS090         ENGL103         Fall 2017         F006         A         E217           CS091         ENGL103         Fall 2017         F006         A         E320	CS077	BUSN460	Fall 2017	F008	Α	S317
CS080         BUSN305         Fall 2017         F007         B         S217           CS081         BUSN554         Fall 2017         F007         A         S313           CS082         BUSN565         Fall 2017         F009         A         S417           CS083         ENGL313         Fall 2017         F006         A         S320           CS084         ENGL313         Fall 2017         F006         B         S319           CS085         ENGL315         Fall 2017         F006         A         S217           CS086         ENGL315         Fall 2017         F006         B         S219           CS087         MCOM301         Fall 2017         F005         A         E318           CS088         MCOM301         Fall 2017         F005         A         E318           CS089         ENGL101         Fall 2017         F006         A         E216           CS090         ENGL101         Fall 2017         F006         A         E217           CS091         ENGL103         Fall 2017         F006         A         E217           CS092         MCOM100         Fall 2017         F005         A         E320	CS078	BUSN460	Fall 2017	F009	В	S316
CS081         BUSN554         Fall 2017         F007         A         S313           CS082         BUSN565         Fall 2017         F009         A         S417           CS083         ENGL313         Fall 2017         F006         A         S320           CS084         ENGL313         Fall 2017         F006         B         S319           CS085         ENGL315         Fall 2017         F006         A         S217           CS086         ENGL315         Fall 2017         F006         B         S219           CS087         MCOM301         Fall 2017         F005         A         E318           CS088         MCOM301         Fall 2017         F005         B         E317           CS089         ENGL101         Fall 2017         F006         A         E216           CS090         ENGL103         Fall 2017         F006         B         E320           CS091         ENGL103         Fall 2017         F006         A         E217           CS092         MCOM100         Fall 2017         F005         A         E320           CS093         MATHS100         Fall 2017         F010         A         S217	CS079	BUSN305	Fall 2017	F009	Α	S318
CS082         BUSN565         Fall 2017         F009         A         S417           CS083         ENGL313         Fall 2017         F006         A         S320           CS084         ENGL313         Fall 2017         F006         B         S319           CS085         ENGL315         Fall 2017         F006         A         S217           CS086         ENGL315         Fall 2017         F006         B         S219           CS087         MCOM301         Fall 2017         F005         A         E318           CS088         MCOM301         Fall 2017         F005         B         E317           CS089         ENGL101         Fall 2017         F006         A         E216           CS090         ENGL101         Fall 2017         F006         A         E216           CS091         ENGL103         Fall 2017         F006         A         E217           CS092         MCOM100         Fall 2017         F005         A         E320           CS093         MATHS100         Fall 2017         F010         A         S217           CS094         MATHS103         Fall 2017         F010         A         S218	CS080	BUSN305	Fall 2017	F007	В	S217
CS083         ENGL313         Fall 2017         F006         A         S320           CS084         ENGL313         Fall 2017         F006         B         S319           CS085         ENGL315         Fall 2017         F006         A         S217           CS086         ENGL315         Fall 2017         F006         B         S219           CS087         MCOM301         Fall 2017         F005         A         E318           CS088         MCOM301         Fall 2017         F005         B         E317           CS089         ENGL101         Fall 2017         F006         A         E216           CS090         ENGL101         Fall 2017         F006         A         E216           CS090         ENGL103         Fall 2017         F006         A         E217           CS091         ENGL103         Fall 2017         F006         A         E217           CS092         MCOM100         Fall 2017         F005         A         E320           CS093         MATHS100         Fall 2017         F010         A         S217           CS094         MATHS103         Fall 2017         F010         A         S219	CS081	BUSN554	Fall 2017	F007	Α	S313
CS084         ENGL313         Fall 2017         F006         B         S319           CS085         ENGL315         Fall 2017         F006         A         S217           CS086         ENGL315         Fall 2017         F006         B         S219           CS087         MCOM301         Fall 2017         F005         A         E318           CS088         MCOM301         Fall 2017         F005         B         E317           CS089         ENGL101         Fall 2017         F006         A         E216           CS090         ENGL101         Fall 2017         F006         B         E320           CS091         ENGL103         Fall 2017         F006         A         E217           CS092         MCOM100         Fall 2017         F006         A         E320           CS093         MATHS100         Fall 2017         F010         A         S217           CS094         MATHS100         Fall 2017         F010         B         S218           CS095         MATHS103         Fall 2017         F010         A         S219           CS096         STAT101         Fall 2017         F010         B         S313	CS082	BUSN565	Fall 2017	F009	Α	S417
CS085         ENGL315         Fall 2017         F006         A         S217           CS086         ENGL315         Fall 2017         F006         B         S219           CS087         MCOM301         Fall 2017         F005         A         E318           CS088         MCOM301         Fall 2017         F005         B         E317           CS089         ENGL101         Fall 2017         F006         A         E216           CS090         ENGL101         Fall 2017         F006         B         E320           CS091         ENGL103         Fall 2017         F006         A         E217           CS092         MCOM100         Fall 2017         F006         A         E320           CS092         MCOM100         Fall 2017         F005         A         E320           CS093         MATHS100         Fall 2017         F010         A         S217           CS094         MATHS100         Fall 2017         F010         A         S412           CS095         MATHS103         Fall 2017         F010         A         S219           CS097         STAT101         Fall 2017         F010         A         S320	CS083	ENGL313	Fall 2017	F006	Α	S320
CS086         ENGL315         Fall 2017         F006         B         S219           CS087         MCOM301         Fall 2017         F005         A         E318           CS088         MCOM301         Fall 2017         F005         B         E317           CS089         ENGL101         Fall 2017         F006         A         E216           CS090         ENGL101         Fall 2017         F006         B         E320           CS091         ENGL103         Fall 2017         F006         A         E217           CS091         ENGL103         Fall 2017         F006         A         E217           CS092         MCOM100         Fall 2017         F006         A         E320           CS092         MCOM100         Fall 2017         F010         A         S217           CS093         MATHS100         Fall 2017         F010         B         S218           CS094         MATHS103         Fall 2017         F010         A         S412           CS096         STAT101         Fall 2017         F010         A         S219           CS097         STAT101         Fall 2017         F011         A         S320	CS084	ENGL313	Fall 2017	F006	В	S319
CS087         MCOM301         Fall 2017         F005         A         E318           CS088         MCOM301         Fall 2017         F005         B         E317           CS089         ENGL101         Fall 2017         F006         A         E216           CS090         ENGL101         Fall 2017         F006         B         E320           CS091         ENGL103         Fall 2017         F006         A         E217           CS092         MCOM100         Fall 2017         F005         A         E320           CS093         MATHS100         Fall 2017         F010         A         S217           CS094         MATHS100         Fall 2017         F010         B         S218           CS095         MATHS103         Fall 2017         F010         A         S412           CS096         STAT101         Fall 2017         F010         A         S219           CS097         STAT101         Fall 2017         F011         A         S320           CS098         PHYS101         Fall 2017         F011         A         S219           CS100         PHYS103         Fall 2017         F011         A         S417	CS085	ENGL315	Fall 2017	F006	Α	S217
CS088         MCOM301         Fall 2017         F005         B         E317           CS089         ENGL101         Fall 2017         F006         A         E216           CS090         ENGL101         Fall 2017         F006         B         E320           CS091         ENGL103         Fall 2017         F006         A         E217           CS092         MCOM100         Fall 2017         F005         A         E320           CS093         MATHS100         Fall 2017         F010         A         S217           CS094         MATHS100         Fall 2017         F010         B         S218           CS095         MATHS103         Fall 2017         F010         A         S412           CS096         STAT101         Fall 2017         F010         A         S219           CS097         STAT101         Fall 2017         F010         B         S313           CS098         PHYS101         Fall 2017         F011         A         S219           CS100         PHYS103         Fall 2017         F011         A         S219           CS101         CSCS100         Fall 2017         F001         A         S417	CS086	ENGL315	Fall 2017	F006	В	S219
CS089         ENGL101         Fall 2017         F006         A         E216           CS090         ENGL101         Fall 2017         F006         B         E320           CS091         ENGL103         Fall 2017         F006         A         E217           CS092         MCOM100         Fall 2017         F005         A         E320           CS093         MATHS100         Fall 2017         F010         A         S217           CS094         MATHS100         Fall 2017         F010         B         S218           CS095         MATHS103         Fall 2017         F010         A         S412           CS096         STAT101         Fall 2017         F010         A         S219           CS097         STAT101         Fall 2017         F010         B         S313           CS098         PHYS101         Fall 2017         F011         A         S320           CS099         PHYS103         Fall 2017         F011         A         S219           CS101         CSCS100         Fall 2017         F001         A         S417           CS102         CSCS100         Fall 2017         F002         B         S219	CS087	MCOM301	Fall 2017	F005	Α	E318
CS090         ENGL101         Fall 2017         F006         B         E320           CS091         ENGL103         Fall 2017         F006         A         E217           CS092         MCOM100         Fall 2017         F005         A         E320           CS093         MATHS100         Fall 2017         F010         A         S217           CS094         MATHS100         Fall 2017         F010         B         S218           CS095         MATHS103         Fall 2017         F010         A         S412           CS096         STAT101         Fall 2017         F010         A         S219           CS097         STAT101         Fall 2017         F010         B         S313           CS098         PHYS101         Fall 2017         F011         A         S320           CS099         PHYS103         Fall 2017         F011         A         S219           CS100         PHYS103         Fall 2017         F001         A         S417           CS102         CSCS100         Fall 2017         F002         B         S219           CS103         CSCS100         Fall 2017         F002         C         S219	CS088	MCOM301	Fall 2017	F005	В	E317
CS091         ENGL103         Fall 2017         F006         A         E217           CS092         MCOM100         Fall 2017         F005         A         E320           CS093         MATHS100         Fall 2017         F010         A         S217           CS094         MATHS100         Fall 2017         F010         B         S218           CS095         MATHS103         Fall 2017         F010         A         S412           CS096         STAT101         Fall 2017         F010         A         S219           CS097         STAT101         Fall 2017         F010         B         S313           CS098         PHYS101         Fall 2017         F011         A         S320           CS099         PHYS103         Fall 2017         F011         B         S313           CS100         PHYS103         Fall 2017         F001         A         S417           CS101         CSCS100         Fall 2017         F002         B         S219           CS103         CSCS100         Fall 2017         F002         C         S219	CS089	ENGL101	Fall 2017	F006	Α	E216
CS092         MCOM100         Fall 2017         F005         A         E320           CS093         MATHS100         Fall 2017         F010         A         S217           CS094         MATHS100         Fall 2017         F010         B         S218           CS095         MATHS103         Fall 2017         F010         A         S412           CS096         STAT101         Fall 2017         F010         A         S219           CS097         STAT101         Fall 2017         F010         B         S313           CS098         PHYS101         Fall 2017         F011         A         S320           CS099         PHYS103         Fall 2017         F011         B         S313           CS100         PHYS103         Fall 2017         F011         A         S219           CS101         CSCS100         Fall 2017         F001         A         S417           CS102         CSCS100         Fall 2017         F002         B         S219           CS103         CSCS100         Fall 2017         F002         C         S219	CS090	ENGL101	Fall 2017	F006	В	E320
CS093         MATHS100         Fall 2017         F010         A         S217           CS094         MATHS100         Fall 2017         F010         B         S218           CS095         MATHS103         Fall 2017         F010         A         S412           CS096         STAT101         Fall 2017         F010         A         S219           CS097         STAT101         Fall 2017         F010         B         S313           CS098         PHYS101         Fall 2017         F011         A         S320           CS099         PHYS101         Fall 2017         F011         B         S313           CS100         PHYS103         Fall 2017         F011         A         S219           CS101         CSCS100         Fall 2017         F001         A         S417           CS102         CSCS100         Fall 2017         F002         B         S219           CS103         CSCS100         Fall 2017         F002         C         S219	CS091	ENGL103	Fall 2017	F006	Α	E217
CS094         MATHS100         Fall 2017         F010         B         S218           CS095         MATHS103         Fall 2017         F010         A         S412           CS096         STAT101         Fall 2017         F010         A         S219           CS097         STAT101         Fall 2017         F010         B         S313           CS098         PHYS101         Fall 2017         F011         A         S320           CS099         PHYS101         Fall 2017         F011         B         S313           CS100         PHYS103         Fall 2017         F011         A         S219           CS101         CSCS100         Fall 2017         F001         A         S417           CS102         CSCS100         Fall 2017         F002         B         S219           CS103         CSCS100         Fall 2017         F002         C         S219	CS092	MCOM100	Fall 2017	F005	Α	E320
CS095         MATHS103         Fall 2017         F010         A         S412           CS096         STAT101         Fall 2017         F010         A         S219           CS097         STAT101         Fall 2017         F010         B         S313           CS098         PHYS101         Fall 2017         F011         A         S320           CS099         PHYS101         Fall 2017         F011         B         S313           CS100         PHYS103         Fall 2017         F011         A         S219           CS101         CSCS100         Fall 2017         F001         A         S417           CS102         CSCS100         Fall 2017         F002         B         S219           CS103         CSCS100         Fall 2017         F002         C         S219	CS093	MATHS100	Fall 2017	F010	Α	S217
CS096         STAT101         Fall 2017         F010         A         S219           CS097         STAT101         Fall 2017         F010         B         S313           CS098         PHYS101         Fall 2017         F011         A         S320           CS099         PHYS101         Fall 2017         F011         B         S313           CS100         PHYS103         Fall 2017         F011         A         S219           CS101         CSCS100         Fall 2017         F001         A         S417           CS102         CSCS100         Fall 2017         F002         B         S219           CS103         CSCS100         Fall 2017         F002         C         S219	CS094	MATHS100	Fall 2017	F010	В	S218
CS097         STAT101         Fall 2017         F010         B         S313           CS098         PHYS101         Fall 2017         F011         A         S320           CS099         PHYS101         Fall 2017         F011         B         S313           CS100         PHYS103         Fall 2017         F011         A         S219           CS101         CSCS100         Fall 2017         F001         A         S417           CS102         CSCS100         Fall 2017         F002         B         S219           CS103         CSCS100         Fall 2017         F002         C         S219	CS095	MATHS103	Fall 2017	F010	Α	S412
CS098         PHYS101         Fall 2017         F011         A         S320           CS099         PHYS101         Fall 2017         F011         B         S313           CS100         PHYS103         Fall 2017         F011         A         S219           CS101         CSCS100         Fall 2017         F001         A         S417           CS102         CSCS100         Fall 2017         F002         B         S219           CS103         CSCS100         Fall 2017         F002         C         S219	CS096	STAT101	Fall 2017	F010	Α	S219
CS099         PHYS101         Fall 2017         F011         B         S313           CS100         PHYS103         Fall 2017         F011         A         S219           CS101         CSCS100         Fall 2017         F001         A         S417           CS102         CSCS100         Fall 2017         F002         B         S219           CS103         CSCS100         Fall 2017         F002         C         S219	CS097	STAT101	Fall 2017	F010	В	S313
CS100         PHYS103         Fall 2017         F011         A         S219           CS101         CSCS100         Fall 2017         F001         A         S417           CS102         CSCS100         Fall 2017         F002         B         S219           CS103         CSCS100         Fall 2017         F002         C         S219	CS098	PHYS101		F011	Α	S320
CS101         CSCS100         Fall 2017         F001         A         S417           CS102         CSCS100         Fall 2017         F002         B         S219           CS103         CSCS100         Fall 2017         F002         C         S219	CS099	PHYS101	Fall 2017	F011	В	S313
CS102         CSCS100         Fall 2017         F002         B         S219           CS103         CSCS100         Fall 2017         F002         C         S219	CS100	PHYS103	Fall 2017	F011	Α	S219
CS103 CSCS100 Fall 2017 F002 C S219	CS101	CSCS100	Fall 2017	F001	Α	S417
	CS102	CSCS100	Fall 2017	F002	В	S219
CS104	CS103	CSCS100	Fall 2017	F002	С	S219
	CS104	CSCS100	Fall 2017	F002	D	S219

## <u>Student</u>

Courses				
StdID	<u>CSID</u>			
S001	CS005			
S001	CS009			
S001	CS011			
S001	CS013			
S001	CS040			
S001	CS054			
S001	CS061			
S001	CS065			
S001	CS067			
S001	CS102			
S002	CS001			
S002	CS004			
S002	CS008			
S002	CS014			
S002	CS053			
S002	CS054			
S002	CS055			
S002	CS062			
S002	CS065			
S002	CS101			
S003	CS001			
S003	CS004			
S003	CS006			
S003	CS011			
S003	CS050			
S003	CS054			
S003	CS056			
S003	CS060			
S003	CS065			
S003	CS102			
S004	CS001			
S004	CS008			
S004	CS012			

S004	CS014
S004	CS042
S004	CS054
S004	CS057
S004	CS061
S004	CS067
S004	CS104
S005	CS001
S005	CS005
S005	CS012
S005	CS014
S005	CS050
S005	CS056
S005	CS058
S005	CS061
S005	CS065
S005	CS093
S006	CS001
S006	CS005
S006	CS008
S006	CS013
S006	CS042
S006	CS055
S006	CS058
S006	CS063
S006	CS067
S006	CS096
S007	CS001
S007	CS004
S007	CS007
S007	CS014
S007	CS046
S007	CS056
S007	CS060
S007	CS064
S007	CS067
S007	CS094
S008	CS001
S008	CS003
S008	CS006
S008	CS009
S008	CS049

S008	CS055
S008	CS060
S008	CS065
S008	CS067
S008	CS104
S009	CS018
S009	CS020
S009	CS024
S009	CS027
S009	CS050
S009	CS071
S009	CS073
S009	CS076
S009	CS079
S009	CS096
S010	CS018
S010	CS021
S010	CS025
S010	CS027
S010	CS038
S010	CS071
S010	CS075
S010	CS077
S010	CS080
S010	CS100
S011	CS018
S011	CS021
S011	CS024
S011	CS027
S011	CS050
S011	CS072
S011	CS077
S011	CS078
S011	CS080
S011	CS097
S012	CS018
S012	CS023
S012	CS026
S012	CS027
S012	CS047
S012	CS072
S012	CS074

S012	CS077
S012	CS079
S012	CS091
S013	CS018
S013	CS021
S013	CS025
S013	CS027
S013	CS050
S013	CS071
S013	CS073
S013	CS076
S013	CS079
S013	CS095
S014	CS018
S014	CS021
S014	CS025
S014	CS027
S014	CS038
S014	CS073
S014	CS077
S014	CS079
S014	CS085
S014	CS089
S015	CS032
S015	CS036
S015	CS039
S015	CS044
S015	CS052
S015	CS086
S015	CS091
S015	CS097
S015	CS103
S015	CS104
S016	CS030
S016	CS040
S016	CS044
S016	CS049
S016	CS053
S016	CS085
S016	CS094
S016	CS097
S016	CS101

S016	CS104
S017	CS034
S017	CS036
S017	CS039
S017	CS048
S017	CS053
S017	CS085
S017	CS090
S017	CS093
S017	CS095
S017	CS102
S018	CS029
S018	CS039
S018	CS047
S018	CS081
S018	CS094
S018	CS098
S019	CS029
S019	CS044
S019	CS047
S019	CS082
S019	CS100
S019	CS104
S020	CS029
S020	CS042
S020	CS048
S020	CS082
S020	CS097
S020	CS103
S021	CS016
S021	CS038
S021	CS045
S021	CS070
S021	CS095
S021	CS100
S022	CS015
S022	CS041
S022	CS047
S022	CS070
S022	CS093
S022	CS104

Note: The column names in <u>blue font color and underline</u> denote primary keys, and the column name with <u>orange font color</u> and dotted line denote foreign keys.

Note: You must logically assess the order in which the tables ought to be created and populated systematically in a certain order. Moreover, the table names ought to be as shown against each table below. Some of the primary keys and foreign keys have been marked to get you started.

**Task 2.** After the database and the tables have been created and populated and the links between them have been set, you need to create/draw an ERD on paper, online on '*Creately*', or in the SQL server IDE.

#### **Task 3.** Solve the queries below

#### **List of Queries**

- Query\_01: How many courses has 'Ab Rehman' registered for in Fall-2017.
- Query\_02: List down the courses that 'Ab Rehman' has taken till now or is currently taking.
- Query\_03: List down the courses that 'Ab Rehman' has taken till now (but not the ones that he is currently taking).
- Query\_04: Which course (rather a specific section of a course) has the most students enrolled in it.
- Query\_05. For which course have students registered for the most (in all times).
- Query\_06. Which student have repeated the same course more than once.
- Query\_07. Write down the names of all students who are class fellows of either 'Momina Qureshi' or 'Alizeh Irfan?
- **Task 4.** Send your database script containing the entire database (i.e. an sql file that you have created containing the database, table structure and all the data); the queries (they too ought to be placed at the end of the sql file); and a soft (or scanned) copy of ERD in an email. Note: The email ought to be sent as follows:
  - i. The Subject of the email ought to be in the following format:

'Spr2017/COMP213(A)/ClassActivity/RollNo/YYYY-MM-DD'

(e..g SUB: 'Spr2017/COMP213(A)/ClassActivity/18-10345/2017-04-30'

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ii. <u>Email the deliverables to me (i.e. <sarwanabbasi@fccollege.edu.pk>) at with Cc to Taha (i.e.</u>

<taha@gmail.com>)

#### **EXPECTED DELIVERABLE**

Email to the instructor as per the criteria as specified under 'Task 4' above.