Syllabus For

BUAN 6320.005 Course – Fall 2025

Classroom Safety and COVID-19 To help preserve the University's in-person learning environment, UT Dallas recommends the following:

Adhere to the University's [CDC Updated Guidelines](#) issued on January 17, 2023. All Comets are strongly encouraged to wear face coverings indoors regardless of vaccination status. Please note this represents a change in the [campus guidance](#) issued on August 23, 2022.

Accommodations for Students Who Miss Class for Reasons Unrelated to COVID-19
Students in the US are expected to attend classes in person and on campus. Students outside the US are expected to attend classes in person and on campus, no later thantwo weeks after their arrival in the US and can attend class virtually using MS Teams (link will be provided in e-learning).

Accommodations for Students Who Must Isolate or Quarantine Due to COVID-19
To keep the UT Dallas community as safe as possible, the University requires students who test positive for COVID-19 or who are close contacts as determined by thecampus contact tracing program to isolate or quarantine as applicable. Faculty will be notified by the Dean of Students' Office if a student in their class has been required to isolate (positive case) or quarantine (exposed). I will make lectures available for those students during the period the students must isolate or quarantine. Absences due to COVID-19 will not be counted against an isolated or quarantined student.

Verifying COVID-19 Isolations or Quarantines
Students need to self-report COVID-19 positive results or exposures via an [online form](#) so that university campus tracers can verify, record, and take necessary campusprecautions. Students should not attend class until cleared by campus tracers.

Vaccinations are widely available, free, and not billed to health insurance. The vaccine will help protect against the transmission of the virus to others and reduce serious symptoms in those who are vaccinated. You are encouraged to get a COVID-19 vaccine and register your vaccination status through the [voluntary vaccine report form](#).

Proactive Community Testing remains an important part of the university's efforts toprotect our community. Tests are fast and free. Please check the [Comets United](#) webpage for additional information.

[Student Safety](#) remains an important part of the UT Dallas' efforts to protect our community. All students will adhere to the Comet Commitment. Unvaccinated Comets will be expected to complete the mandatory [Required Daily Health Screening.](#) Those students who do not comply will be referred to the Office of Community Standards and Conduct for disciplinary action under the [Student Code of Conduct – UTSP5003](#). All students are encouraged to read the Recommendations for Students Returning to Campus issued on August 2, 2021.

Visit [Comets United webpage](#) to obtain the latest information on the University's guidance and resources for campus health and safety.

[Previous Campus Communications](#): a list of university announcements made in 2020-2021.

[Honorlock](#): Online proctoring tool will be available for fully online courses and for classes with enrolled international students who are not yet in the United States.

Student Resources

Students who have tested positive for COVID-19 or may have been exposed should not attend class in person and should instead follow required disclosure notifications as posted on the university's website (see "[What should I do if I become sick?](#)")

COVID-19 Resources
[Comets United webpage](#): check frequently.

[FAQ](#): check out the FAQs and reach out to your instructor or academic advisor if answers are not included.

[Student Resources](#): a variety of resources are available to help students to obtain counseling, health care, and academic support.

Course Information

Course Prefix, Number, Section	*BUAN 6320.005*
Course Title	*Database Foundations for Business Analytics*
Term	*Fall 2025*
Days & Times	*Friday 10:00 am - 12:45 pm*
Classroom	*JSOM 2.106*

Professor Contact Information

Professor	*Sri Kannan Srikanth*
Email Address	*kannan.srikanth@utdallas.edu*
Office Location	*SOM 2.703	MS Teams*
Office Hours	*By appointment Office hours will be hosted on MS Teams virtually. Links to the virtual meeting will be posted on e-learning. In-person meetings can be scheduled prior or after class hours.*

Wednesday: 3:00 PM to 5:00 PM and by Appointment

Teaching Assistant (TA)	*Ruchitha Panyam*
TA Email	*rxp230080@utdallas.edu*
Office Hours	*Tuesday 4.00 PM to 6.00 PM (In person or Via Teams)*

Course Pre-requisites, Co-requisites, and/or Other Restrictions
None

Course Description
The course provides database knowledge for students to function effectively in their functional area. The course covers the fundamentals of relational datamodel and database queries, and the basic concepts of NoSQL databases. Structured Query Language will be used extensively. Concepts around use of NoSQL/MongoDB will be covered as well. Credit cannot be received for more than one of the following:

BUAN 6320 or MIS 6326 or ACCT 6320 or ACCT 6321 or MIS 6320 or OPRE 6393. (3-0) Y

Student Learning Objectives/Outcomes
Upon completion of this course, the student will be able to:
1. SLO1: Create a conceptual data model when requirements are provided.
2. SLO2: Convert a conceptual data model into a physical relational database structure.
3. SLO3: Write SQL statements using MySQL or another similar relational database platform.
4. SLO4: Understand NoSQL database types and querying of NoSQL databases.

Required Textbooks and Materials

Required Texts

A textbook has not been mandated for this course. However, the course presentations, quizzes and assignments have been drawn from the books mentioned in the "Suggested Readings" section. It is strongly recommended that you at least review the materials from those books by renting them via Safari Online that is available at UT Dallas Library.

Audio recordings, slides and software demos that might be needed in the course will be made available in eLearning. eLearning will be used as the central platform to provide access to class content (e.g., class slides and assignment descriptions) and the recording of grades. All announcements (e.g., change in assignment dates) will be posted in eLearning and will be sent to the student email on record in eLearning. It is thestudents' responsibility to regularly check their UT Dallas email accounts and review theAnnouncements page in eLearning.

Required Materials
You will need a laptop from the first day of class. While any operating system is fine, it is recommended that the laptop have at least 8GB of ram and about 100MB hard disk space available.

Suggested Course Materials
Suggested Readings/Texts
1. John L. Viescas and Michael J. Hernandez, SQL Queries for Mere Mortals, 2014. ISBN-13: 978-0-321-99247-5; ISBN-10: 0-321-99247-4
2. Joel Murach, Murach's MySQL, 2nd Edition, 2015, ISBN-13: 978-1890774820
3. Michael J. Hernandez, Database Design for Mere Mortals, 2013, ISBN-13: 978-0321884497, ISBN-10: 0321884493
4. Brad Dayley, NoSQL with MongoDB in 24 Hours, 2015. ISBN-13: 9780672337130
5. eBooks which will be made available during the class.

Assignments & Academic Calendar
Topics, Reading Assignments, Due Dates, Exam Dates

Class Date	Topic(s)	HW, Quizzes and Projects (All duedates end at 11:59 pm)
Week 1 **August 29**	• Course Overview • Overview of Relational Databases	
Week 2 **September 5**	• MySQL Overview • Write SQL – Querying one table (eBook 1)	
Week 3 **September 12**	• Project Teams to meet for project plan. • SQL	• Form Groups • HW1: SQL - In eLearning
Week 4 **September 19**	• Write SQL: Querying multiple tables. • Inner Joins/Outer Joins	• **HW 1:** SQL – **DUE** • Group Formation **DUE**
Week 5 **September 26**	• **Project Plan discussion** • Installation of Mongo DB (Look ahead) • Group By/ Having Clauses	• **Quiz 1** • **HW 2**: SQL – In eLearning
Week 6 **October 3**	• Write SQL: Modifying Data • Review eBook 1 and eBook 2 • Write SQL: Stored Programs-Procedures	• **HW2: - SQL – DUE**
Week 7 **October 10**	• Write SQL: Concurrency and Transaction Management • Write SQL: Stored Programs-Functions	
Week 8 **October 17**	• **Review of topics**	• **All Topics from week 1-7 session** **HW 3**: SQL: In eLearning
Week 9 **October 24**	Representing Events and Transactions with Data Modeling • Write SQL: Stored Programs-Triggers	• **Quiz 2** • **HW3**: SQL – **DUE**
Week 10 **October 31**	• SQL Wrap-up • Project Discussion	
Week 11 **November 7**	• Introduction to NoSQL Databases	• **HW 4: Data Modeling**
Week 12 **November 14**	• MongoDB • Write NoSQL queries using MongoDB • Embedded SQL	• **HW 4: DUE**
Week 13 **November 21**	• **PROJECT PRESENTATION BY ALL**	• **Project Write-up: DUE**
Week 14 **November 28**	• **Thanksgiving Holidays (No Class)**	• **HW 5: MongoDB: In e-learning**
Week 15 **December 5**	• **Review and Quiz 3**	• **HW 5: DUE** • **Quiz 3**
Week 16 **December 7**	• **Final Project Submission: DUE** • **Final Project Video Submission: DUE**	

- **In addition to these classes, if needed we could have team meeting for any extra help with course material.**

Classroom Conduct Requirements Related to Public Health Measures
UT Dallas will follow the public health and safety guidelines put forth by the Centers for Disease Control and Prevention (CDC), the Texas Department of State Health Services (DSHS), and local public health agencies that are in effect at that time during the Fall 2021semester to the extent allowed by state governance. Texas Governor Greg Abbott's Executive Order GA-38 prohibits us from mandating vaccines and face coverings for UT Dallas employees, students, and members of the public on campus. However, we stronglyencourage all Comets to get vaccinated and wear face coverings as recommended by theCDC. Check the Comets United: Latest Updates webpage for the latest guidance on the University's public health measures. Comets are expected to carry out Student Safety protocols in adherence to the Comet Commitment. Unvaccinated Comets will be expectedto complete the Required Daily Health Screening. Those students who do not comply willbe referred to the Office of Community Standards and Conduct for disciplinary action under the Student Code of Conduct – UTSP5003.

Grading Policy
Grades will be determined based on your standing in class, class average and your overall performance with class participation. Depending on your performance based on the class average, your grade will be assigned. In addition to the sections mentioned there will be in-class mini quizzes and grades will be assigned for the same. All raw scores will be scaled down to 100 and percentage from the scaled score will be determined. If there are any quizzes or assignments that allow multiple attempts only the Last Attempt will be graded.

Homework	20 points each
Quiz	100 points each
Project	100 points each

Course Policies
Make-up exams
No make-up exams possible.

Extra Credit
None

Late Work
Will not be accepted; homework, projects and quizzes are due by the due dates provided in eLearning.

Special Assignments
There will be surprise Mini Quizzes in class which will be counted towards additional credit.

Class Materials

The instructor may provide class materials that will be made available to all students registered for this class as they are intended to supplement the classroom experience. These materials may be downloaded during the course; however, these materials are for registered students' use only. Classroom materials may not be reproduced or shared with those not in class or uploaded to other online environments except to implement an approved Office of Student Accessibility accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](.).

Class Attendance

Regular and punctual class attendance is expected. Students who fail to attend class regularly are inviting scholastic difficulty. In some courses, instructors may have special attendance requirements; these should be made known to students during the first week of classes. Faculty have the discretion to set an attendance policy for their in-person meetings, but the absences due to COVID-19 will not be counted against a quarantined student.

Class Participation

Regular class participation is expected regardless of course modality. Students who fail to participate in class regularly are inviting scholastic difficulty. A portion of the grade for this course is directly tied to your participation in this class. It also includes engaging in group or other activities during class that solicit your feedback on homework assignments, readings, or materials covered in the lectures (and/or labs). Class participation is documented by faculty. Successful participation is defined as consistently adhering to University requirements, as presented in this syllabus. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](.).

Class Recordings

Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student Accessibility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student Accessibility accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](.).

The instructor may record meetings of this course. These recordings will be made available to all students registered for this class if the intent is to supplement the classroom experience. If the instructor or a UTD school/department/office plans any other uses for the recordings, consent of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law. Unless specified all classes are in person only.

Classroom Citizenship

Meaningful Class Participation: You are expected to actively participate in the discussion of any readings, contribute to the learning experience of the class, and meaningfully contribute to all group project work.

Comet Creed

This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

"As a Comet, I pledge honesty, integrity, and service in all that I do."

Academic Support Resources

The information contained in the following link lists the University's academic support resources for all students.

Please see http://go.utdallas.edu/academic-support-resources.

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus. Please review the catalog sections regarding the credit/no credit or pass/fail grading option and withdrawal from class.

Please go to http://go.utdallas.edu/syllabus-policies for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.