

Course Syllabus

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IST 210: Organization of Data

Instructor: Dan Richert

Meeting time: Tue, Thu 3:05 - 4:20 PM

Classroom: Leonhard 102

Learning Assistants:

Bryce Schneider: **Tue, Thu 4:30 PM - 6:00 PM** - Zoom: (<https://psu.zoom.us/j/6720189820>  <https://psu.zoom.us/j/6720189820>)

Josefina Lara Azocar: **Monday 4:45 PM - 6:45 PM and Sunday 10:00 AM - 12:00 PM** on Zoom, but happy to do them in person! (<https://psu.zoom.us/j/7742421515>  <https://psu.zoom.us/j/7742421515>)



Marisa Vandenberg: **Tue, Thu 12:00 - 1:00 PM and Friday 10:00 AM - 11:00 AM** - Leonhard 105D

Learning assistants will have office hours every week, beginning in week 1. These will be announced in class until a regular schedule is determined.

Instructor's Office Hours:


[Schedule here \(https://bit.ly/3sz1YKs\)](https://bit.ly/3sz1YKs) or if day/time does not work, email me and we will set up a time to meet.

Course Description

Introduction to concept of databases including the storage, manipulation, evaluation, and display of data and related issues. [IST 110](https://bulletins.psu.edu/search/?P=IST%20110)  (<https://bulletins.psu.edu/search/?P=IST%20110>) is recommended as preparation for [IST 210](https://bulletins.psu.edu/search/?P=IST%20210)  (<https://bulletins.psu.edu/search/?P=IST%20210>). IST 210 Organization of Data (3) As the database management software becomes one of the critical components in modern IT applications and systems, a solid understanding of the fundamental knowledge on the design and management of "data" is required for virtually any IT professionals.

In a business setting, such IT professionals should be able to talk to the clients to

- derive right requirements for database applications,
- ask the right questions about the nature of their entities and in-between relationships in their business scenarios
- code scripts in SQL to retrieve, update, insert, and delete data from a relational database
- analyze and develop an effective and robust design and solution to address business constraints,

IST 210 provides a fundamental understanding of database concepts and practical skills needed to analyze and implement a well-defined database design. In particular, IST 210 provides an introduction to the relational model, logical and physical database design, data modeling, and SQL query language. Students will use [MySQL](https://www.mysql.com/) , an open source SQL relational database management system that is developed and supported by Oracle.

Upon completion of IST 210, students should be able to understand the implications and future directions of databases and database technologies.

Prerequisites

- none
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Course Objectives

1. Data Modeling – Students will be able to:

- A. Describe the concept and practical use of data modeling
- B. Model data in business environments by drawing E/R diagrams with unary, binary, or ternary relationships and different cardinality and modality
- C. Explain the concept of and specify unique keys within entities
- D. List the basic differences between different data models (e.g., OO, OR, semi-structured)

2. Relational Model – Students will be able to:

- A. Define basic relational database terms such as relation and tuple
- B. Explain the concept of and identify primary and foreign keys
- C. Explain the concept of and specify referential integrity

3. Logical Database Design – Students will be able to:

- A. Understand the concepts of dependencies and redundancies in data
- B. Perform the data normalization process through 3NF
- C. Design relational databases by converting E/R diagrams into relational tables

4. SQL Query Language – Students will be able to:

- A. Describe the purpose and use of SQL
 - B. Perform the basic operations of databases for DML (insert, delete, update, and select) and DDL (CREATE TABLE, ALTER TABLE, TRUNCATE TABLE and DROP TABLE)
 - C. Write queries using JOIN operators
 - D. Manipulate data using a variety of SQL commands such as GROUP BY and built-in aggregate functions of AVG, SUM, etc.
 - E. Understand sub queries and their relationship to JOINS.
 - F. Intermediate SQL: Describe the functions of TRANSACTION, VIEW, and integrity constraints
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Course Texts

The **required** course text is an interactive zyBook: *Introduction to Databases with SQL* by Zyante Inc. (zybooks.com).


In order to subscribe:

1. Sign in or create an account at learn.zybooks.com
2. Enter zyBook code: PSUIST210RichertSpring2024
3. Subscribe

Make sure you choose **Section 002**

The zyBooks readings and activities are designed to give you a breadth of knowledge around the topic areas, and to provide opportunities for practicing with the different concepts, techniques, and tools covered in the course.

Technology Requirements

Laptop that meets the [specifications of the College of IST](https://ist.psu.edu/current/undergraduate/laptop-requirement) 
(<https://ist.psu.edu/current/undergraduate/laptop-requirement>).

Bring your laptop to every class.

You must run MySQL and MySQL Workbench on your laptop for in-class work, unit quizzes, and the final exam. (Instructions for installing MySQL Workbench will be provided during class.)

Grading and Assignments

IMPORTANT NOTE: There are graded activities in every class including the first week of classes.

This course is assignment intensive. It is very important that you follow the deadlines and do your labs and assignments every week.

Late Policy:

- **Late Submissions:** All work must be completed and turned in before the due date and time.
 - Assignments submitted late are deducted 25% for each 24 hours period after the due date and time i.e max 75% within 24 hours of the due date and time, max 50% within the next 24 hours, and so on.
 - No late assignments will be accepted after 72 hours without prior approval from the instructor.

Submission Error Policy: Students have been occasionally known to “accidentally” submit a corrupted or incorrect file in order to buy more time to complete an assignment. Because of this, resubmissions will not be accepted after the assignment due date. After uploading a file to Canvas, make sure that you download your submission from Canvas to verify that you have uploaded the correct and uncorrupted file.

The sharing of knowledge is strongly encouraged. Working together to understand and learn during the semester is essential; however, **COPYING (from the Web or peers) assignments is unacceptable.** **Using Generative AI on course assignments and assessments is strictly forbidden.** This is cheating and will be addressed in accordance with the University's Academic Integrity policy (see below). If you have any questions about this, please ask!

Your grade in this course will be based on the following activities:

- In-class Exercises and Unit Labs
 - These will progress from beginning activities that provide practice and test your understanding of core concepts, to more in-depth individual assignments that will require you to demonstrate your ability to construct complete solutions to increasingly difficult problems. Some in-class demonstration exercises are pulled from material on LinkedInLearning (i.e., Learning MySQL Development by Brad Wheeler).
- zyBooks Assignments
 - zyBook assignments will serve as both an interactive online textbook and as a tool to evaluate your understanding of the core concepts.
 - Only the **participation assignments** are graded; however, we strongly recommend you still attempt the challenge problems as they help solidify your understanding of the material.
- Quizzes -- zyBooks
 - Short quizzes on zyBooks will occur typically on the first class of the week, at the beginning of class.
- Quizzes -- Unit

- Unit quizzes occur every 2-3 weeks. They are to be completed during class, during the last class of the week.
- Project
 - This will occur during the last several weeks of the course.
- Final -- cumulative; sometime during finals week.

Group Work

Grading will be based on the assignment for the work submitted. Individuals can have their grade adjusted lower from the team grade based upon the performance of the members in the group. Submitted work should include the names of the members who contributed to the submission. If the member did not contribute, then please leave their name off the work submitted. If the member did not fully complete the work they said they would do or missed a team deadline, the team can submit a % (percentage) of what the person did for their grade to be adjusted.

Attendance

Attendance and participation are critical components of the course. Attendance is taken using daily quizzes in the Canvas LMS.

The following table defines the attendance policy for the course:

Up to 4 missed classes	No grade deduction
5-6 missed classes	Minus one grade fraction (eg A- becomes a B+)
7-8 missed classes	Minus one full grade (eg A- becomes a B-)
9-10 missed classes	Minus two full grades (eg A- becomes a C-)
More than 10 missed classes	Fail

Allowed absences do not excuse you from quizzes and other assessed in-class activities. There are no unit make-ups, but your single lowest quiz, lab, and in-class activity score (one of each) will be dropped. For weekly 5 pt. quizzes, your lowest grade will be dropped.

Arriving late after attendance has been completed counts as a missed class.

If you have a reasonable expectation that you will have more than 4 excused absences during the semester (e.g., due to recognized Penn State activities like sanctioned sports events or club meetings, religious holidays, or any other planned excused absences), **you must put this in writing to the instructor during the first week of classes and be prepared to discuss this with your instructor.** Otherwise, you will be expected to adhere to the above attendance policy. A large number of excused absences will not necessarily be permitted. To learn programming typically requires more than the usual amount of focus and intensity. If you have activities going on that will interfere with this, you will need to take this course during a semester when you are not so distracted.

Grading Categories with Weights

The following table shows the weighting of each activity on your grade:

Category	Percentage
Unit Quizzes	35%
Unit Labs	10%
zyBooks Quizzes	5%
Zybooks	10%
In class Exercises	10%
Project	10%
Final	20%
Total	100%

Course Grading Scale

The following are the minimum cutoffs for each grade. **NOTE: I do not round** to calculate your final grade.

- 93.00% = A
- 90.00% = A-
- 87.00% = B+
- 83.00% = B

- 80.00% = B-
- 77.00% = C+
- 70.00% = C
- 60.00% = D
- less than 60.00% = F


Please refer to the University Grading Policy for Undergraduate Courses for additional information about University grading policies.

If you are prevented from completing this course for reasons beyond your control, you have the option of requesting a deferred grade from your instructor. For more information, please see "Deferred Grades" on the Student Policies Web Site.

COURSE CONDUCT

- Classes will start **on time** and end as scheduled.
- You should attend each class and *actively participate* in the class activities and discussions.
- **Attendance** will be tracked using the Canvas LMS. See table above for potential grade deductions.
- You must notify a grader *before class* if you are going to miss class *for any reason*.
- Students who participate in University-sanctioned events (such as athletics) must make prior arrangements and give ample notice.
- **Engaged learning:** Expect to be engaged with *this course* during class. **Unless you are working on a course activity that explicitly requires that you use your laptop, it should be closed.** Surfing the web, e-mail, and on-line chat are some of the activities that are generally considered NOT related to the course. If spurious in-class computer use becomes a problem, I reserve the right to implement changes to the syllabus and grading schema to induce compliance.
- **Out-of-class workload: For every hour of class time, be prepared to budget about 3 hours of out-of-class time.** This estimate is a guide; the time which you actually need will vary by topic and assignment. For example, if the material is new to you or difficult to comprehend, it will require more of your time.

UNIVERSITY and COLLEGE POLICIES


Review current information regarding Penn State policies, including Academic Integrity, Disability Accommodations, Military Accommodations, and many others on the [University Policies](https://policies.psu.edu)  (<https://policies.psu.edu>) page.

Generative AI Tools NOT PERMITTED


In this course, it is inappropriate to use AI tools in the development of responses, answers, and any code that may be submitted on homework assignments, lab activities, projects, and examinations. Why? This course teaches foundational skills. Employers expect that internship and job applicants will be able to answer questions about—and even solve a problem using—foundational skills, without using AI tools in the interview. Furthermore, to successfully use AI tools in the *future*, you need to know enough about the subject matter to discern whether the AI output is correct.



The teaching team will evaluate your work to ensure that it has not been generated by an AI tool. Additionally, I may ask you to explain the submission that you have created. Inability to present and defend one's submission may be used as evidence in an Academic Integrity filing."

Academic Integrity

Review the College of IST's page on [Academic Integrity](https://ist.psu.edu/current/undergraduate/advising/integrity) 
(<https://ist.psu.edu/current/undergraduate/advising/integrity>) .

Penn State and the College of Information Sciences and Technology are committed to maintaining academic integrity in this and all other courses. We take academic integrity matters seriously. By acknowledging the items in this survey, you become a partner to the University/College standards of academic excellence.


Academic integrity--scholarship free of fraud and deception--is an important educational objective of Penn State. Academic dishonesty can lead to a failing grade or in extreme cases - including student misconduct - referral to the [Office of Student Conduct](https://studentaffairs.psu.edu/conduct)  (<https://studentaffairs.psu.edu/conduct>) .

In cases where academic integrity is questioned, [Penn State's policy on academic integrity](https://senate.psu.edu/policies-and-rules-for-undergraduate-students/47-00-48-00-and-49-00-grades/#49-20) 
(<https://senate.psu.edu/policies-and-rules-for-undergraduate-students/47-00-48-00-and-49-00-grades/#49-20>) requires that the instructor give the student notice of the charge as well as the recommended sanction. Procedures allow the student to accept or contest the charge through discussions with the instructor. If a student chooses to contest, the case will then be managed by the College of IST Academic Integrity Committee and from that time forward; the student will be prohibited from dropping the course. If a disciplinary sanction also is recommended, the case will be referred to the [Office of Student Conduct](https://studentaffairs.psu.edu/conduct)  (<https://studentaffairs.psu.edu/conduct>) .




All Penn State colleges abide by this Penn State policy, but review procedures vary by college when academic dishonesty is suspected. Information about Penn State's academic integrity policy and college review procedures is included in the information students receive upon enrolling in a course. Additional information can be found on the College of IST website.





Additionally, students are expected to act with civility and personal integrity; respect other students' dignity, rights, and property; and help create and maintain an environment in which all can succeed

through the fruits of their own efforts. An environment of academic integrity is requisite to respect for self and others, and a civil community.



For additional information on Academic Integrity, including the process and procedure, please go to: IST AI Resources Page: <https://ist.psu.edu/current/undergraduate/advising/integrity> 
 (<https://ist.psu.edu/current/undergraduate/advising/integrity>)


HonorLock Proctoring for Unit Quizzes and Exams

This course may require you to take exams using certain proctoring software that uses your computer's webcam or other technology to monitor and/or record your activity during exams. The proctoring software may be listening to you, monitoring your computer screen, viewing you and your surroundings, recording and storing any and all activity (including visual and audio recordings) during the proctoring process. By enrolling in this course, you have consented to the use of the proctoring software selected by your instructor, including but not limited to any audio and/or visual monitoring which may be recorded. You will need to use one of the compatible operating systems which are listed in [Honorlock's Minimum Requirements table](#)  (<https://honorlock.com/support/>). Additionally, you will need to use Chrome and download the [Honorlock Chrome Extension](#)  (<https://app.honorlock.com/install/extension>). You may also review [Penn State's statement on privacy in online proctoring](#)  (<https://honorlock.psu.edu/privacy/>). Please contact your instructor with any questions.

Honorlock support is available 24/7/365. If you encounter any technical issues, you may contact them through live chat on the [support page](#)  (<https://honorlock.com/support/>) or within the exam itself. Some additional guides you should review are the [Student FAQ](#)  (<https://honorlock.kb.help/honorlock-student-faq/>), [Honorlock Knowledge Base](#)  (<https://honorlock.kb.help/>), and [How to Use Honorlock](#)  (<https://honorlock.kb.help/how-to-use-honorlock-student/>).

DISABILITY ACCOMMODATIONS

Penn State welcomes students with disabilities into the University's educational programs. Every Penn State campus has an office for students with disabilities. Student Disability Resources (SDR) website provides [contact information for every Penn State campus](#)  (<http://equity.psu.edu/sdr/disability-coordinator>) (<http://equity.psu.edu/sdr/disability-coordinator>). For further information, please visit [Student Disability Resources website](#)  (<http://equity.psu.edu/sdr/>) (<http://equity.psu.edu/sdr/>).

In order to receive consideration for reasonable accommodations, you must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation: [See](#)  (<http://equity.psu.edu/sdr/guidelines>) (<http://equity.psu.edu/sdr/guidelines>). If the documentation supports your request for reasonable accommodations, your campus disability services office will provide you with an accommodation letter. Please share this letter with your instructors and discuss the accommodations with them as early as possible. You must follow this process for every semester that you request accommodations.

COUNSELING AND PSYCHOLOGICAL SERVICES

Many students at Penn State face personal challenges or have psychological needs that may interfere with their academic progress, social development, or emotional wellbeing. The university offers a variety of confidential services to help you through difficult times, including individual and group counseling, crisis intervention, consultations, online chats, and mental health screenings. These services are provided by staff who welcome all students and embrace a philosophy respectful of clients’ cultural and religious backgrounds, and sensitive to differences in race, ability, gender identity and sexual orientation.

[Counseling and Psychological Services at University Park \(CAPS\)](#) ➞

[\(http://studentaffairs.psu.edu/counseling/\)](http://studentaffairs.psu.edu/counseling/)
(http://studentaffairs.psu.edu/counseling/): 814-863-0395




Counseling and Psychological Services at [Commonwealth Campuses](#)
➞ [\(https://senate.psu.edu/faculty/counseling-services-at-commonwealth-campuses/\)](https://senate.psu.edu/faculty/counseling-services-at-commonwealth-campuses/)
(https://senate.psu.edu/faculty/counseling-services-at-commonwealth-campuses/)













Penn State Crisis Line (24 hours/7 days/week): 877-229-6400
Crisis Text Line (24 hours/7 days/week): Text LIONS to 741741




EDUCATIONAL EQUITY/REPORT BIAS STATEMENTS












Penn State takes great pride to foster a diverse and inclusive environment for students, faculty, and staff. Acts of intolerance, discrimination, or harassment due to age, ancestry, color, disability, gender, gender identity, national origin, race, religious belief, sexual orientation, or veteran status are not tolerated and can be reported through Educational Equity via the [Report Bias webpage](#) ➞
[\(http://equity.psu.edu/reportbias/\)](http://equity.psu.edu/reportbias/) (http://equity.psu.edu/reportbias/).












Course Summary:










Date	Details	Due
Thu Jan 11, 2024	 L01: zyBooks 1.1 – 1.5 (https://psu.instructure.com/courses/2312016/assignments/15881993)	due by 3:05pm
	 L01: Ex. 1.1 ISTravel (https://psu.instructure.com/courses/2312016/assignments/15881992)	due by 11:59pm
Sun Jan 14, 2024	 Academic Integrity Acknowledgment for Students (https://psu.instructure.com/courses/2312016/assignments/15881975)	due by 11:59pm












Date	Details	Due
Tue Jan 16, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) https://psu.instructure.com/calendar?event_id=4493176&include_contexts=course_2312016	3pm to 4:30pm
	 L02: zyBooks 2.1 - 2.5 https://psu.instructure.com/courses/2312016/assignments/15882000	due by 3:05pm
	 Lab 1 Install MySQL https://psu.instructure.com/courses/2312016/assignments/15882051	due by 11:59pm
Thu Jan 18, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) https://psu.instructure.com/calendar?event_id=4493177&include_contexts=course_2312016	3pm to 4:30pm
	 L02 zyBooks Quiz 2.1-2.5 https://psu.instructure.com/courses/2312016/assignments/15881984	due by 3:12pm
	 L01 zyBooks Quiz 1.1 - 1.5 https://psu.instructure.com/courses/2312016/assignments/15881980	due by 4:12pm
	 L02 Ex. 2.4 Create database and tables using SQL https://psu.instructure.com/courses/2312016/assignments/15881997	due by 11:59pm
	 L02 Ex. 2.5 Import data https://psu.instructure.com/courses/2312016/assignments/15881998	due by 11:59pm
	 L02 Ex. 2.2 Create database https://psu.instructure.com/courses/2312016/assignments/15881995	due by 11:59pm
Tue Jan 23, 2024	 L02 Ex. 2.3 Create table using wizard https://psu.instructure.com/courses/2312016/assignments/15881996	due by 11:59pm
	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) https://psu.instructure.com/calendar?event_id=4493178&include_contexts=course_2312016	3pm to 4:30pm
	 L02 Ex. 2.1 Exploring MySQL workbench.docx	due by 11:59pm












Date	Details	Due
	https://psu.instructure.com/courses/2312016/assignments/15881994	
	 L02 Ex. 2.6 SHOW and USE (https://psu.instructure.com/courses/2312016/assignments/15881999)	due by 11:59pm
	 L03 Ex. 3.1 Practice Data Import (https://psu.instructure.com/courses/2312016/assignments/15882001)	due by 11:59pm
	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493179&include_contexts=course_2312016)	3pm to 4:30pm
Thu Jan 25, 2024	 Units 1 & 2 Quiz Part II SQL (use Canvas) (https://psu.instructure.com/courses/2312016/assignments/15881978)	due by 4:20pm
	 Units 1 & 2 Quiz Part 1 Multiple Choice (https://psu.instructure.com/courses/2312016/assignments/15881981)	due by 4:20pm
Fri Jan 26, 2024	 Lab 2 Create database (https://psu.instructure.com/courses/2312016/assignments/15882052)	due by 11:59pm
	 Units 1 & 2 Quiz Part II SQL (use Canvas) (https://psu.instructure.com/courses/2312016/assignments/15881978) (1 student)	due by 12:15pm
Mon Jan 29, 2024	 Units 1 & 2 Quiz Part 1 Multiple Choice (https://psu.instructure.com/courses/2312016/assignments/15881981) (1 student)	due by 12:15pm
Tue Jan 30, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493180&include_contexts=course_2312016)	3pm to 4:30pm
	 L04: zyBooks 2.6 - 2.8 (https://psu.instructure.com/courses/2312016/assignments/15882011)	due by 3:05pm











Date	Details	Due
	 L04 zyBooks Quiz 2.6-2.8 (https://psu.instructure.com/courses/2312016/assignments/15881976)	due by 3:12pm
	 L04 Ex. 4.1 Basics of selecting data (https://psu.instructure.com/courses/2312016/assignments/15882002)	due by 11:59pm
	 L04 Ex. 4.2 Refine select queries (https://psu.instructure.com/courses/2312016/assignments/15882003)	due by 11:59pm
	 L04 Ex. 4.3 Filter results with WHERE (https://psu.instructure.com/courses/2312016/assignments/15882004)	due by 11:59pm
	 L04 Ex. 4.4 SELECT using IN and LIKE (https://psu.instructure.com/courses/2312016/assignments/15882005)	due by 11:59pm
	 L04 Ex. 4.5 Practice SELECTS (https://psu.instructure.com/courses/2312016/assignments/15882006)	due by 11:59pm
Thu Feb 1, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493181&include_contexts=course_2312016)	3pm to 4:30pm
	 Units 1 & 2 Quiz Part II SQL (use Canvas) (https://psu.instructure.com/courses/2312016/assignments/15881978) (1 student)	due by 11:59pm
	 L04 Ex. 4.7 UPDATE (https://psu.instructure.com/courses/2312016/assignments/15882008)	due by 11:59pm
	 L04 Ex. 4.8 DELETE (https://psu.instructure.com/courses/2312016/assignments/15882009)	due by 11:59pm
	 L04 Ex. 4.9 Practice INSERT, UPDATE, DELETE (https://psu.instructure.com/courses/2312016/assignments/15882010)	due by 11:59pm













Date	Details	Due
Tue Feb 6, 2024	 Units 1 & 2 Quiz Part 1 Multiple Choice https://psu.instructure.com/courses/2312016/assignments/15881981 (1 student)	due by 11:59pm
	 L04 Ex. 4.6 INSERT https://psu.instructure.com/courses/2312016/assignments/15882007	due by 11:59pm
	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) https://psu.instructure.com/calendar?event_id=4493182&include_contexts=course_2312016	3pm to 4:30pm
	 L05 zyBooks 2.9 -2 .12 https://psu.instructure.com/courses/2312016/assignments/15882016	due by 3:05pm
	 L05 zyBooks Quiz 2.9-2.12 https://psu.instructure.com/courses/2312016/assignments/15881970	due by 3:12pm
	 L05 Ex. 5.1 Brief on Data Integrity https://psu.instructure.com/courses/2312016/assignments/15882012	due by 11:59pm
	 L05 Ex. 5.2 Foreign Keys and Referential Integrity https://psu.instructure.com/courses/2312016/assignments/15882013	due by 11:59pm
	 L05 Ex. 5.3 Referential Integrity Constraints examples https://psu.instructure.com/courses/2312016/assignments/15882014	due by 11:59pm
	 L05 Ex. 5.4 Create Normalized Movie Database https://psu.instructure.com/courses/2312016/assignments/15882015	due by 11:59pm
	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) https://psu.instructure.com/calendar?event_id=4493183&include_contexts=course_2312016	3pm to 4:30pm
Thu Feb 8, 2024	 Unit 3 Quiz Multiple Choice - No HL https://psu.instructure.com/courses/2312016/assignments/15964535	due by 3:50pm












Date	Details	Due
	 Unit 3 Quiz Multiple Choice (https://psu.instructure.com/courses/2312016/assignments/15881974)	due by 4:20pm
	 Unit 3 Quiz SQL Queries (https://psu.instructure.com/courses/2312016/assignments/15881971)	due by 4:20pm
	 Unit 3 Quiz SQL Queries - No HL (https://psu.instructure.com/courses/2312016/assignments/15964533)	due by 5:05pm
Fri Feb 9, 2024	 Lab 3 SELECT INSERT UPDATE DELETE (https://psu.instructure.com/courses/2312016/assignments/15882053)	due by 11:59pm
Mon Feb 12, 2024	 Lab 3 SELECT INSERT UPDATE DELETE (https://psu.instructure.com/courses/2312016/assignments/15882053) (1 student)	due by 11:59pm
	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493184&include_contexts=course_2312016)	3pm to 4:30pm
	 L06: zyBooks 3.1 - 3.3 (https://psu.instructure.com/courses/2312016/assignments/15882022)	due by 3:05pm
Tue Feb 13, 2024	 L06 zyBooks Quiz 3.1-3.3 (https://psu.instructure.com/courses/2312016/assignments/15881988)	due by 3:12pm
	 L06 Ex. 6.1 Aggregate Functions (https://psu.instructure.com/courses/2312016/assignments/15882017)	due by 11:59pm
	 L06: Ex. 6.2 Practice Aggregate Functions (https://psu.instructure.com/courses/2312016/assignments/15882021)	due by 11:59pm
Thu Feb 15, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493185&include_contexts=course_2312016)	3pm to 4:30pm


Date	Details	Due
Tue Feb 20, 2024	 L06 Ex. 6.3 Brief: Basics of JOINS (https://psu.instructure.com/courses/2312016/assignments/15882018)	due by 11:59pm
	 L06 Ex. 6.4 INNER JOIN (https://psu.instructure.com/courses/2312016/assignments/15882019)	due by 11:59pm
	 L06 Ex. 6.5 Practice JOINS with two tables (https://psu.instructure.com/courses/2312016/assignments/15882020)	due by 11:59pm
	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493186&include_contexts=course_2312016)	3pm to 4:30pm
	 L07 zyBooks 3.4-3.5 (https://psu.instructure.com/courses/2312016/assignments/15882026)	due by 3:05pm
	 L07 zyBooks Quiz 3.4-3.5 (https://psu.instructure.com/courses/2312016/assignments/15881969)	due by 3:12pm
Thu Feb 22, 2024	 L07 Ex. 7.1 Multiple JOINS (https://psu.instructure.com/courses/2312016/assignments/15882023)	due by 11:59pm
	 L07 Ex. 7.2 OUTER JOINS (https://psu.instructure.com/courses/2312016/assignments/15882024)	due by 11:59pm
	 Lab 4 Create Normalized Database (https://psu.instructure.com/courses/2312016/assignments/15882054)	due by 11:59pm
Tue Feb 27, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493187&include_contexts=course_2312016)	3pm to 4:30pm
	 L07 Ex. 7.3 Practice JOINS (https://psu.instructure.com/courses/2312016/assignments/15882025)	due by 11:59pm














Date	Details	Due
	https://psu.instructure.com/calendar?event_id=4493188&include_contexts=course_2312016	
	 L08: zyBooks 3.6-3.7 (https://psu.instructure.com/courses/2312016/assignments/15882030)	due by 3:05pm
	 L08 zyBooks Quiz 3.6-3.7 (https://psu.instructure.com/courses/2312016/assignments/15881979)	due by 3:12pm
	 L08 Ex. 8.1 Introduction to Subqueries (https://psu.instructure.com/courses/2312016/assignments/15882027)	due by 11:59pm
	 L08 Ex. 8.2 More on Subqueries (https://psu.instructure.com/courses/2312016/assignments/15882028)	due by 11:59pm
	 L08 Ex. 8.3 Practice Subqueries (https://psu.instructure.com/courses/2312016/assignments/15882029)	due by 11:59pm
	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493189&include_contexts=course_2312016)	3pm to 4:30pm
Thu Feb 29, 2024	 Unit 4 Quiz Part 1. (no subqueries) (https://psu.instructure.com/courses/2312016/assignments/15881987)	due by 4:20pm
	 Unit 4 Quiz Part 2. (no subqueries) (https://psu.instructure.com/courses/2312016/assignments/15881968)	due by 4:20pm
Fri Mar 1, 2024	 Lab 5 JOINS (https://psu.instructure.com/courses/2312016/assignments/15882055)	due by 11:59pm
Tue Mar 5, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493190&include_contexts=course_2312016)	3pm to 4:30pm
Thu Mar 7, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493190&include_contexts=course_2312016)	3pm to 4:30pm




Date	Details	Due
	https://psu.instructure.com/calendar?event_id=4493191&include_contexts=course_2312016	
	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) https://psu.instructure.com/calendar?event_id=4493192&include_contexts=course_2312016	3pm to 4:30pm
Tue Mar 12, 2024	 L09 Ex. 9.1 Correlated Subqueries https://psu.instructure.com/courses/2312016/assignments/15882032	due by 11:59pm
	 L09 Ex. 9.2 Practice Correlated Subqueries https://psu.instructure.com/courses/2312016/assignments/15882033	due by 11:59pm
	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) https://psu.instructure.com/calendar?event_id=4493193&include_contexts=course_2312016	3pm to 4:30pm
Thu Mar 14, 2024	 L09 Ex. 9.3 Practice EXISTS operator https://psu.instructure.com/courses/2312016/assignments/15882034	due by 11:59pm
	 L09 Ex. 9.4 More Practice on Subqueries https://psu.instructure.com/courses/2312016/assignments/15882035	due by 11:59pm
Fri Mar 15, 2024	 Lab 6 - Complex Queries https://psu.instructure.com/courses/2312016/assignments/15882056	due by 11:59pm
Tue Mar 19, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) https://psu.instructure.com/calendar?event_id=4493194&include_contexts=course_2312016	3pm to 4:30pm
	 L10: zyBooks 3.8 https://psu.instructure.com/courses/2312016/assignments/15882039	due by 3:05pm
	 L10 Ex. 10.1 Create VIEW table https://psu.instructure.com/courses/2312016/assignments/15882036	due by 11:59pm

Date	Details	Due
Thu Mar 21, 2024	 L10 Ex. 10.2 Query VIEW (https://psu.instructure.com/courses/2312016/assignments/15882037)	due by 11:59pm
	 L10 Ex. 10.3 Practice views and subqueries (https://psu.instructure.com/courses/2312016/assignments/15882038)	due by 11:59pm
	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493195&include_contexts=course_2312016)	3pm to 4:30pm
	 Unit 5 Quiz Part I (https://psu.instructure.com/courses/2312016/assignments/15881973)	due by 4:20pm
Tue Mar 26, 2024	 Unit 5 Quiz Part II. (https://psu.instructure.com/courses/2312016/assignments/15881986)	due by 4:20pm
	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493196&include_contexts=course_2312016)	3pm to 4:30pm
	 L11: zyBooks 4.1-4.5 (https://psu.instructure.com/courses/2312016/assignments/15882046)	due by 3:05pm
	 L11 zyBooks Quiz 4.1-4.5 (https://psu.instructure.com/courses/2312016/assignments/15881982)	due by 3:12pm
Thu Mar 28, 2024	 L11 Ex. 11.1 Brief: What are entities, relationships, and attributes? (https://psu.instructure.com/courses/2312016/assignments/15882040)	due by 11:59pm
	 L11 Ex. 11.2 Brief: What is Cardinality? (https://psu.instructure.com/courses/2312016/assignments/15882041)	due by 11:59pm
	 L11 Ex. 11.3 ERD modeling (https://psu.instructure.com/courses/2312016/assignments/15882042)	due by 11:59pm
Thu Mar 28, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493196&include_contexts=course_2312016)	3pm to 4:30pm

Date	Details	Due
	https://psu.instructure.com/calendar?event_id=4493197&include_contexts=course_2312016	
	 L11 Ex. 11.4 Create EERD with relationships (https://psu.instructure.com/courses/2312016/assignments/15882043)	due by 11:59pm
	 L11 Ex. 11.5 Create EERD MyFlix (https://psu.instructure.com/courses/2312016/assignments/15882044)	due by 11:59pm
	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493198&include_contexts=course_2312016)	3pm to 4:30pm
	 L12 zyBooks 4.10-4.12 (https://psu.instructure.com/courses/2312016/assignments/15882050)	due by 3:05pm
	 L12 zyBooks Quiz 4.10-4.12 (https://psu.instructure.com/courses/2312016/assignments/15881983)	due by 3:12pm
Tue Apr 2, 2024	 L12 Ex. 12.1 Brief on Normalization Process (https://psu.instructure.com/courses/2312016/assignments/15882047)	due by 11:59pm
	 L12 Ex. 12.2 Normalization with example (https://psu.instructure.com/courses/2312016/assignments/15882048)	due by 11:59pm
	 L12 Ex. 12.3 Database Normalization Problem (https://psu.instructure.com/courses/2312016/assignments/15882049)	due by 11:59pm
Thu Apr 4, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) (https://psu.instructure.com/calendar?event_id=4493199&include_contexts=course_2312016)	3pm to 4:30pm
	 Unit 6 Quiz Part I (https://psu.instructure.com/courses/2312016/assignments/15881989)	due by 4:20pm
	 Unit 6 Quiz Part II.	due by 4:20pm

Date	Details	Due
	https://psu.instructure.com/courses/2312016/assignments/15881985	
Tue Apr 9, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) https://psu.instructure.com/calendar?event_id=4493200&include_contexts=course_2312016	3pm to 4:30pm
Thu Apr 11, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) https://psu.instructure.com/calendar?event_id=4493201&include_contexts=course_2312016	3pm to 4:30pm
Fri Apr 12, 2024	 Project Part I https://psu.instructure.com/courses/2312016/assignments/15882067	due by 11:59pm
Tue Apr 16, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) https://psu.instructure.com/calendar?event_id=4493202&include_contexts=course_2312016	3pm to 4:30pm
Thu Apr 18, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) https://psu.instructure.com/calendar?event_id=4493203&include_contexts=course_2312016	3pm to 4:30pm
Fri Apr 19, 2024	 Project Part II. https://psu.instructure.com/courses/2312016/assignments/15882068	due by 11:59pm
Tue Apr 23, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) https://psu.instructure.com/calendar?event_id=4493204&include_contexts=course_2312016	3pm to 4:30pm
Thu Apr 25, 2024	 IST 210, Section 002: Org Data (22411--UP---P-IST-----210-----002-) https://psu.instructure.com/calendar?event_id=4493205&include_contexts=course_2312016	3pm to 4:30pm
Mon Apr 29, 2024	 Project Part III. https://psu.instructure.com/courses/2312016/assignments/15882069	due by 11:59pm
	 Final Part I. Multiple Choice Old https://psu.instructure.com/courses/2312016/assignments/15881972	

Date	Details	Due
	 Final Part II. SQL (https://psu.instructure.com/courses/2312016/assignments/15881977)	
	 Final Part III. Design (https://psu.instructure.com/courses/2312016/assignments/15881990)	
	 IST 210 Final Exam (https://psu.instructure.com/courses/2312016/assignments/15881991)	
	 L02 zyBooks Quiz 2.1-2.5 (https://psu.instructure.com/courses/2312016/assignments/15881984) (1 student)	
	 L02 zyBooks Quiz 2.1-2.5 (https://psu.instructure.com/courses/2312016/assignments/15881984) (1 student)	
	 L09 9.3 More Practice on Subqueries (https://psu.instructure.com/courses/2312016/assignments/15882031)	
	 L11 Ex. 11.6 EERD Practice Problem (https://psu.instructure.com/courses/2312016/assignments/15882045)	
	 Part II. Q1 (https://psu.instructure.com/courses/2312016/assignments/15882057)	
	 Part II. Q2 (https://psu.instructure.com/courses/2312016/assignments/15882058)	
	 Part II. Q3 (https://psu.instructure.com/courses/2312016/assignments/15882059)	
	 Part II. Q4 (https://psu.instructure.com/courses/2312016/assignments/15882060)	
	 Part II. Q5 (https://psu.instructure.com/courses/2312016/assignments/15882062)	
	 Part II. Q6 (https://psu.instructure.com/courses/2312016/assignments/15882063)	

Date	Details	Due
	 Part II. Q7 (https://psu.instructure.com/courses/2312016/assignments/15882064)	
	 Part II. Q8 (https://psu.instructure.com/courses/2312016/assignments/15882065)	
	 Part III. EERD (https://psu.instructure.com/courses/2312016/assignments/15882066)	