

INST327 - Database Design and Modeling

Assignment 1 - Instructions

See Canvas for the Assignment Deadline

Read the full set of instructions and make sure that you understand them all before starting to work on the assignment. You may lose points if you do not follow all of these instructions.

- Submit your assignment as a whole by the deadline stated on Canvas. Do not make partial submissions (i.e., a subset of the answers). You may lose points for making partial submissions, even if your answers are correct. However, if the deadline is approaching, it is better to submit what you have than nothing. If you miss the deadline without a university-sanctioned and documented excuse, you will lose points. The following scheme applies to late submissions:

- After the deadline, but within 3 hours of it	10% reduction of base grade; (max grade possible is 90 of 100.)
- More than 3 hours after the deadline, but within 24 hours of it	20% reduction of base grade; (max grade possible is 80 of 100.)
- More than 24 hours after the deadline, but within 48 hours of it	40% reduction of base grade; (max grade possible is 60 of 100.)
- More than 48 hours after the deadline	100% reduction of base grade; (i.e., graded as 0.)

- For example, if the deadline is at 11:59 PM, a submission at 12:00 AM is subject to a 10% reduction; a submission at 3:00 AM is subject to a 20% reduction, and so on. The Canvas timestamp is the time at which the submission is made. Late submissions due to technical issues with Canvas, computer crashes, power outages, etc., are still considered late submissions. To avoid such problems, submit your work well in advance of the deadline.
- The assignment will remain open for late submissions for 48 hours after the deadline.
- You will use the specified database to answer each of the questions in this assignment, as stated in the Questions document. If you have not built the sample database on your server, download the script file from Canvas and build it on your server before starting your work on the questions. If you already have the database on your server but have made changes to the data or structure, you may want to drop the existing copy and rebuild the database. Please contact the instructors or the TAs if you encounter problems downloading or running the database script.

- Submit your answers via Canvas (ELMS) using the link on the Assignment 1 page by the deadline. Save all queries in a .sql file named *yourLastname_A1_queries.sql* (for example, *diker_A1_queries.sql*)
- State in your .sql file what query is the answer to what question by numbering them within comment delimiters. For example:


```
/*Answer 1*/
SELECT *
FROM ap.terms;
```
- Ensure that your queries exactly replicate the sample result sets shown in the figures, including all data and formatting; otherwise, you will lose points. See the accompanying rubric for details.
- **NOTE: Each assignment will have a different set of disallowed structures and keywords.**
- For this assignment, you are not allowed to use the following keywords or structures. You will lose points if you do so. You are advised to review your answer queries to make sure that they do not involve any of the following:
 - a) The ***COALESCE*** keyword.
 - b) The ***BETWEEN*** keyword.
 - c) The ***LIKE*** keyword.
 - d) The ***LIMIT*** keyword.
 - e) The ***IF*** keyword, the ***IFNULL*** keyword, the ***THEN*** keyword, or the ***ELSE*** keyword.
 - f) Filtering result rows by using a column that is not suggested/warranted by the question. If the question hints/suggests/warrants filtering by a specific column, you should use that column for filtering purposes. For example, if the question requires listing orders that were placed after a particular date, you can filter by using the column that lists the order date. However, you cannot filter by another column, such as one that lists the order number or the customer number. For an example like that, the following structure is acceptable:

... *WHERE order_date > '2024-11-15'* ...

The following structures are not acceptable in this example, but may be acceptable in a different example.

... *WHERE order_number = 128 OR order_number = 256* ...

... *WHERE customer_number IN (...)*
... *WHERE order_total > 579.25 ...*

- g) Filtering conditions that compare the primary key values of a table to one or more specific values. For example, you cannot use

... *WHERE order_id < 7 ...*
... *WHERE order_id = 7 ...*

- Contact the instructors immediately if you think there is an error in any question, or if you need further clarification.
- This and all remaining assignments in this course are individual work. Please work on your answers and scripts individually, without help from other students in the course or from other individuals. As required by University of Maryland regulations, all cases of misconduct are reported to the Office of Student Conduct, regardless of scope or circumstances. **NOTE: Posting an assignment question on Chegg or any other site outside the ELMS course site or the designated Discord to obtain assistance from anyone other than members of the instructional team of this course is NOT allowed. The use of generative AI is prohibited except on assignment questions that explicitly require or request such use.**
- The instructors, TAs, CAs, and AMPs are the best sources for help while working on this assignment. Feel free to seek the instructor's help at any time, as needed.
- There are 2 questions in this assignment, and each contributes 50 points towards the overall score on this assignment.