Database Modeling and Normalization Academic Level : Bachelor Paper details Imagine that you work for a consulting firm that offers information technology and database services. Part of its core services is to optimize and offer streamlined solutions for efficiency. In this scenario, your firm has been awarded a contract to implement a new personnel system for a government agency. This government agency has requested an optimized data repository for its system which will enable the management staff to perform essential human resources (HR) duties along with the capability to produce ad hoc reporting features for various departments. They look forward to holding data that will allow them to perform HR core functions such as hiring, promotions, policy enforcement, benefits management, and training. Using this scenario, write a 3–4 page paper in which you: •Determine the steps in the development of an effective Entity Relationship Model (ERM) Diagram and determine the possible iterative steps/factors that one must consider in this process with consideration of the HR core functions and responsibilities of the client.. •Analyze the risks that can occur if any of the developmental or iterative steps of creating an ERM Diagram are not performed.. •Select and rank at least 5 entities that would be required for the development of the data repositories.. •Specify the components that would be required to hold time-variant data for policy enforcement and training management.. •Diagram a possible 1:M solution that will hold salary history data, job history, and training history for each employee through the use of graphical tools. Note: The graphically depicted solution is not included in the required page length.. •Plan each step of the normalization process to ensure the 3NF level of normalization using the selected 5 entities of the personnel database solution. Document each step of the process and justify your assumptions in the process.. •Diagram at least 5 possible entities that will be required to sustain a personnel solution. The diagram should include the following: ◦Dependency diagrams.. ◦Multivalued dependencies.. ◦Note: The graphically depicted solution is not included in the required page length.. . Your assignment must follow these formatting requirements: •Paper should be typed, double spaced, using Times New Roman font (12-point), with one-inch margins on all sides; citations and references must follow APA or school-specific format. Check with your professor for any additional instructions.. •Include a cover page containing the title of the assignment, your name, your professor's name, the course title, and the date. The cover page and the reference page are not included in the required assignment page length.. •Include charts or diagrams created in a drawing tool with which you are familiar. The completed diagrams or charts must be imported into the Word document before the paper is submitted..