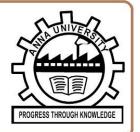
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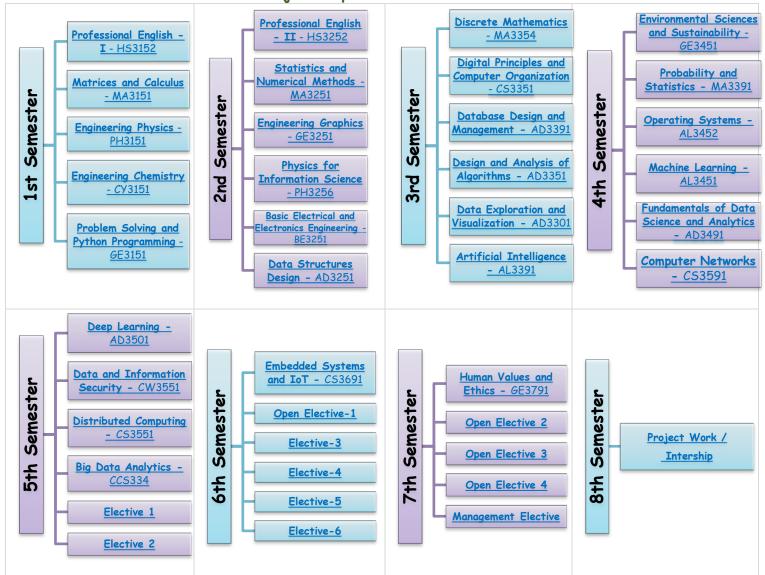
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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Anna University Regulation: 2021

AD3391- Database Design and Management

II Year/ III Semester

Question Bank

UNIT-I

Prepared By,

Mrs. S. KIRUTHIKA, AP/AIDS

AD3391- Database Design and Management

UNIT-I PART-A

- 1. Explain the applications of DBMS?
- (a) Railway Reservation System,(b).library Management System,(c) Banking and(d) Education sector.
- 2. What is a database environment?.

A database environment is a collective system of components that comprise and regulatesthe group of data, management, and use of data, which consist of software, hardware, people, techniques of handling database, and the data also.

- 3. Mention the steps in Database development lifecycle. Ans: planning, requirement gathering, conceptual design, logical design, physical design, construction, implementation and rollout, and Ongoing support.
- 4 .What is database design?

Database design is the organization of data according to a database model. The designer determines what data must be stored and how the data elements interrelate. With this information, they can begin to fit the data to the database model.

5. Define entity-relationship model.

An entity – relationship model (or ER model) describes interrelated things of interest in aspecific domain of knowledge.

6.List the types of entities in the ER model?

A basic ER model is composed of entity types (which classify the things of interest) and specifies relationships that can exist between entities (instances of those entity types).

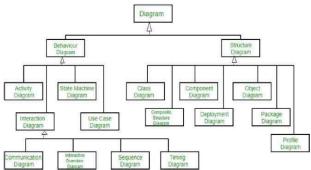
7. What is the enhanced ER model?

The enhanced entity – relationship (EER) model (or extended entity – relationship model)in computer science is a high-level or conceptual data model incorporating extensions to theoriginal entity – relationship (ER) model, used in the design of databases.

8. What is the UML diagram?

A class diagram in the Unified Modeling Language (UML) is a type of static structurediagram that describes the structure of a system by showing thesystem's classes, their attributes, operations (or methods), and the relationships among objects.

9.Draw the UML diagram hierarchy. AD3391- Database Design and Management



10. Mention the advantages of DBMS

Better Data Transferring, Better Data Security, Better data integration, Minimized Data Inconsistency, Faster data Access, Better decision making, increased end-user productivity and Simple.

- 11.List the features of a database
- 1.It is a persistent (stored) collection of related data.
- 2. The data is input (stored) only once.
- 3.data is organized (in some fashion).
- 4. The data is accessible and can be queried (effectively and efficiently).
- 12.List the components of DBMS.

The major components of database management system are, Software Hardware Data Procedures

Database Access Language and Users.

- 13. Give the limitations of ER model? How do you overcome this? The entity relationship model is a collection of basic objects called entitiesAnd relationship among those objects. An entity is a thing or object in theReal world that is distinguishable from other objects.
- 14. What are the features of a good database design.

Reflects real-world structure of the problem, Can represent all expected data over time, Provides efficient access to data, Avoids redundant storage of data items and Clean, consistent, and easy to understand.

15. List the characters of conceptual data model

An overall view of the structure of the data in a business context. Features that are independent of any database or physical storage structure. Objects that may not ever be implemented in physical databases.

16. Application of ER model

Database design, Database troubleshooting, Business, Education and Research.

AD33417DMAbat ibsdata model?nExplain various data models with example?

There are three main models of data modeling like conceptual, logical, and physical. Aconceptual model is used to establish the entities, attributes, and relationships. A logical datamodel is to define the structure of the data elements and set the relationship between them. Finally, the physical model is used to specify the database-centric implementation of the model.

18. What are the categories of data models. High level/conceptual data models – provide concepts close to the wayUsers perceive the data.

PART-B

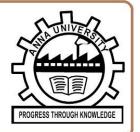
- 1. List and describe the features and purpose of database?
- 2. Compare database vs file processing system?
- 3. Discuss the correspondence between the ER model construct and theRelational model constructs. Show how each ER model construct can be Mapped to the relational model. Discuss the option for mapping EERModel construct
- 4. List and describe the components of database management system with neatDiagram.
- 5. Explain the database system architecture with neat diagram?

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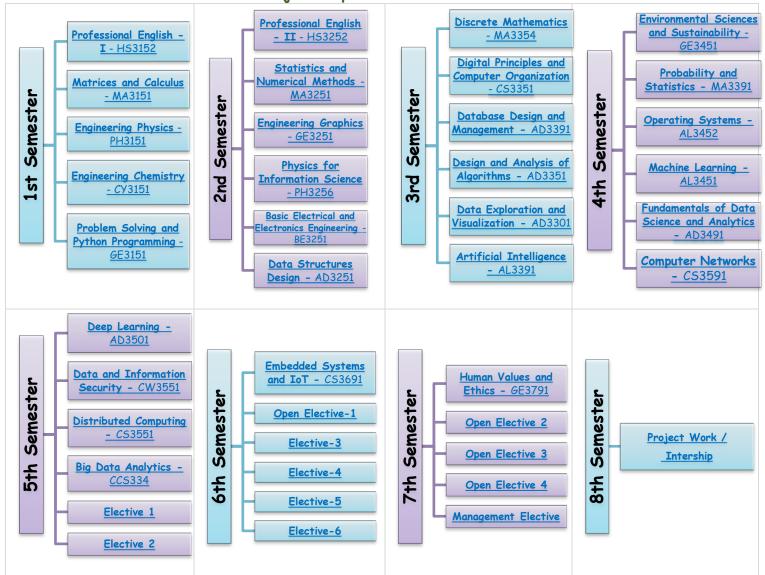
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