

## SUNBEAM

## Institute of Information Technology



## Placement Initiative

## **DAC - Database Technologies**

- 1. What is normalization? What is its need? Explain 1NF, 2NF, 3NF and BCNF in detail.
- 2. Explain entity relationship diagram and Explain all types of relationships with examples?
- 3. Which are different types of joins in SQL? Give examples.
- 4. What is stored procedure? What are advantages of stored procedure?
- 5. How stored function is different than stored procedure?
- 6. What is difference between CHAR, VARCHAR and TEXT? Does data type matter while creating index?
- 7. Explain ACID properties of transaction. What is use of transaction?'
- 8. What is table level locking and row level locking? What is optimistic locking and pessimistic locking?
- 9. Write a query to find third highest salary of employee (on EMP table) using sub-queries and without using sub-queries.
- 10. Write a query to print name of employee and his manager. Also print manager's manager.
- 11. What is use of views? How to limit DML operations on views to the given criteria?
- 12. What is normalization? Explain 1-NF, 2-NF, 3-NF and BCNF in detail.
- 13. What is NoSQL database? What are its advantages and limitations?
- 14. Explain BASE transactions and CAP theorem.
- 15. Explain types of NoSQL databases. Where they can be used?
- 16. Write queries to perform CRUD operations on mongo database.