

SQL WORKSHEET 1

ANSWERS:

1. (A) CREATE, (D) ALTER
2. (A) UPDATE, (B) DELETE
3. (B) STRUCTURED QUERY LANGUAGE
4. (B) DATA DEFINITION LANGUAGE
5. (A) DATA MANIPULATION LANGUAGE
6. C) CREATE TABLE A (B int, C float)
7. (B) Alter Table A ADD COLUMN D float
8. (B) Alter Table A Drop Column D
9. (B) Alter Table A Alter Column D int
10. C) Alter Table A Add Primary Key B
11. A Data Warehouse is an informational repository which an organisation uses to store data which can be later used for analysis. It is considered a necessary aspect for any business.
12. OLAP – It's an online database query management system which consists of historical data from several databases. Example of use: Netflix making movie recommendations based on previous streaming data of user.

OLTP – It's an online database modifying system consisting of current operational data. Example of usage: ATM centers are an OLTP application.
13. Characteristics of Data Warehouse:
 - Subject Oriented: Data Warehouse doesn't put emphasis on just the current operation but rather on specific themes such as sales, marketing etc.
 - Integrated: Closely related to subject orientation Integration means founding shared entity to scale similar data from various databases.
 - Time-Variant: This means data is maintained regularly in different specific time intervals such as daily, weekly, monthly or yearly.
 - Non-Volatile: As the name suggests, data in a data warehouse is permanent and isn't erased with insertion of new data.
14. Star Schema is a database organisational structure used in data warehousing that uses 1 big fact table to store measured data, and 1 or more smaller tables storing attributes about the data.
15. SETL or SET Language is a high level programming language based on the mathematical theory of sets.