

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 a centralised repository that stores structured data (database tables, Excel sheets) and semi-structured data (XML files, webpages) for the purposes of reporting and analysis.
12. **OLTP**- It is an online database modifying system consisting of current operational data.

Example- Online banking and ATM are an OLTP application.

OLAP- It is an online analytical processing server and it allow user to analyse information from multiple database system at the same time. It consists historical data from several databases.

Example – Netflix movie recommendation and Spotify the analyse songs by user to come up with the personalized homepage their songs and playlist.

13. Characteristics of Data Warehouse:
 - Subject Oriented- A data warehouse is always a subject oriented as it delivers information about a theme instead of organization's current operations such as sales, marketing etc.
 - Integrated- It is somewhere same as subject oriented. Integration means founding a shared entity to scale similar data from various databases.
 - Time-Variant-This means data is maintained on regular basis in different specific time intervals such as daily, weekly, monthly or yearly.
 - Non-Volatile- As the name suggest, data is resided in data warehouse is permanent and it's not erased with insertion of new data.
14. A Star schema is a database organizational structure optimized for use in a data warehouse or business intelligence that uses a single large fact table to store transaction or measured data and one or more smaller dimensional tables that store attributes about the data.
15. SELT (SET Language) is a very high-level programming language based on the mathematical theory of sets.