**Assignment of Data Science 1**

1. **Difference between OLAP and OLTP**

Sol. The differences between OLAP and OLTP are:

1. OLAP stands for Online analytical processing (data warehouse) while OLTP stands for Online transaction processing (operational system).
2. OLTPs are the original sources of the data while PLAP data comes from the various OTLP databases.
3. OLAP helps with planning, problem solving and decision support while OLTP used to control and run fundamental business tasks.
4. In OLAP, the inserts and updates are periodic long-running batch jobs while in OLTP they are short and fast which are initiated by end users.
5. OLAP space requirements are larger compared to OLTP as it requires more indexes than OLAP
6. OLAP's database design are typically de-normalized with fewer tables while in OLTP they are highly normalized with many tables.

Ans2



