Ans: - Data analysis is the overarching Data Analyst practice that encompasses the use of data analytics tools and techniques to achieve business objectives.

Data analysis is a broader term that refers to the process of compiling and analysing data in order to present findings to management to help inform business decision making.

Que: - What are the tools useful for data analysis?

Ans: - A data analyst many tools to gather insight from data

- R and Python
- Microsoft excel
- Tableau
- RapidMiner
- Power BI
- Apache spark
- SAS
- Talend
- Splunk

Que: - What are the various step involved in any analytics project?

Ans: - • EDA (Exploratory Data Analysis)

• Acquiring data from primary or secondary data sources and maintaining databases.

• Data storing and retrieving skills and tools. • Cleaning dirty data (unstructured data).

• Manage data warehousing and ETL (Extract Transform Load).

• Develop KPI's to assess performance.

• In depth exposure of SQL and analytics.

• Develop visual representations of the data, through the use of BI platforms.

• Interpreting data, analyzing results using statistical techniques.

• Developing and implementing data analyses, data collection systems and other strategies that optimize statistical efficiency and quality.

• Data Analysts should have familiarity with data warehousing and business intelligence concepts

Que: - What are the responsibility of a Data Analyst?

Ans: - Data Analytics is all about uncovering findings from data. Diving in at a granular level to mine and understand complex behavior, trends, and inferences. It is about surfacing hidden insight that can help enable companies to make smarter business decisions.

- Collecting and interpreting Data
- Analysing result
- Reporting the result back to the relevant members of the business
- Identifying pattern and trend in data sets
- Working alongside teams within the business
- Defining new data collection and analysis process

Que: - write some key skills usually required for a data analyst?

Ans: -

- Analytical skills
- Numeracy skills
- Technical and computer skill
- Attention to details
- Business skills

Que: - What are common problem that data analysts encounter during analysis?

Ans: -

- Amount of data being collected
- Collecting meaningful and real time data
- Visual representation of data
- Data from multiple source
- Inaccessible data

- Poor quality data
- Pressure from the top
- Lack of support
- Confusion or anxiety
- Scaling data analysis

Ans: -   **Data science**

- Data science is the art and science of extracting actionable insight from raw data

- Data Science is mining large amounts of structured and unstructured data to identify patterns

- Data Science includes a combination of programming, statistical skills, Machine Learning Algorithm.

- Data science is all about uncovering findings from data through different process, tools and techniques involved to identify patterns from raw data

- Data scientist explore examine data from multiple disconnected sources

    Data analysis
- Data analysis are not commonly responsible for building statical models or deploying machine learning tools

- Data analysis is the overarching Data Analyst practice that encompasses the use of data analytics tools

- A data analyst will solve the questions given by the business

- Data analysis usually looks at data from a single source like the CRM

- Data analysis refers to the process of compiling and analysing data to support decision making