1. You are to follow week 8 notes (8 - Database Application Development) from DBS211.ca to Connect to an Oracle database from a C++ Program and fetch data from offices table. The code in notes executes a select statement. You need to provide clear screenshot of your code and the output window in a single document.

*You are recommended to work with your friend in a PC for the above A. your faculty will demo in class for Part A. Individual submission is required even if you work together on a single PC and there are same screenshots. If you cannot work on a PC, then the alternate is to write no more than 3 pages answering the following questions B.*

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1. Who are ETL developers, Database developers, Database administrators, Data analysts, Data Scientists and Cloud data Administrators? What are their job responsibilities? Do you think you might choose a career in the database field and why/why not?

Ans) 1) ETL developers, or extract, transform, and load, are:

The duties of an ETL developer include obtaining data from several sources, transforming it to fit into a target database or data warehouse, and efficiently loading the data. ETL developers are also in charge of building and managing the ETL procedures. They maintain data quality, consistency, and accessibility by writing and optimizing SQL queries, scripts, and workflows.

2) Developers of databases:

Employment Duties:

The tasks of database developers include developing, putting into use, and maintaining database systems. In addition to writing SQL queries, they also build database structures, improve database speed, and guarantee data integrity.

In addition, they might work on database-related programming such as triggers and stored procedures.

3) Database administrators, or DBAs: Their duties include managing and maintaining databases to make sure they are secure, accessible, and operating at peak efficiency. take care of database tuning, access control, and backup and recovery. To maintain databases operating efficiently, DBAs keep an eye out for problems and fix them.

Data Evaluators:

Workplace Duties:

In order to offer insights and aid in decision-making, data analysts concentrate on looking through and analyzing data.

They convey data trends, patterns, and practical recommendations to stakeholders using statistical analysis and data visualization techniques.

4) Scientists in Data:

Workplace Duties:

To glean insights from data, data scientists use sophisticated statistical and machine learning methods. They create algorithms, run data trials, and construct prediction models to address challenging business issues.

5) Data Administrators: Tasks Included:

Cloud data administrators handle information housed on cloud computing platforms such as Google Cloud, AWS, and Azure. They use services like AWS S3, Azure Data Lake, or Google Cloud Storage to manage data storage, security, and access in a cloud environment.

->My hobbies and career objectives will determine whether I choose a job in the database industry.

->I like working with data and finding solutions to data-related problems; a database professional's career may be fulfilling. Positions involving databases frequently provide competitive pay and strong job stability. Opportunities for specialization in disciplines like data science, data engineering, or analytics are offered by the field. Because I enjoy working with raw data and databases, this sector may be a good fit for me if I prefer dealing with structured data and databases. But bear in mind that the industry is always changing, and long-term success depends on remaining current with the newest innovations and fashions.