Database Search and Reporting Task

1. Comparison Assignment Create a comparison between Flat File Systems and Relational Databases

	Flat File Systems	Relational Databases
Structure	is a simple file that contains a single table of data, with no relationships between tables	is a type of database that organizes data into one or more tables, with each table consisting of a set of rows and columns. Each table has a unique key that can be used to establish relationships with other tables
Redundancy	 high redundancy: the same data may be replicated in different files Results in inefficiencies and inconsistencies. 	 No redundancy: data is stored only once. Ensures consistency and avoids duplication
Relationships	Limited support for complex relationships	Supports complex relationships between data
Example usage	For example, SQL, which is a standard interface, is a popular type of Relational Database.	For example, a CSV file is the most mutual type of Flat File Database.
	 Limited Functionality: The realm of data exploration often demands more than meets the eye 	 Complexity: The architecture of a city demands intricate design, much like databases. Overhead: In the grandeur of database

Drawbacks

Data Integrity
 Scalability: The canvas
 of data is ever expanding. Flat files,
 however, stand at the
 base camp, unable to
 scale the heights of
 managing large or
 rapidly growing
 datasets. They falter in
 accommodating the

data deluge.

- management, there exists an undercurrent of resource consumption. The engines driving databases introduce a certain overhead, which can subtly impact the resources available for other tasks;
- Cost: Like grand palaces, databases often come at a cost.