Database management system (DBMS)

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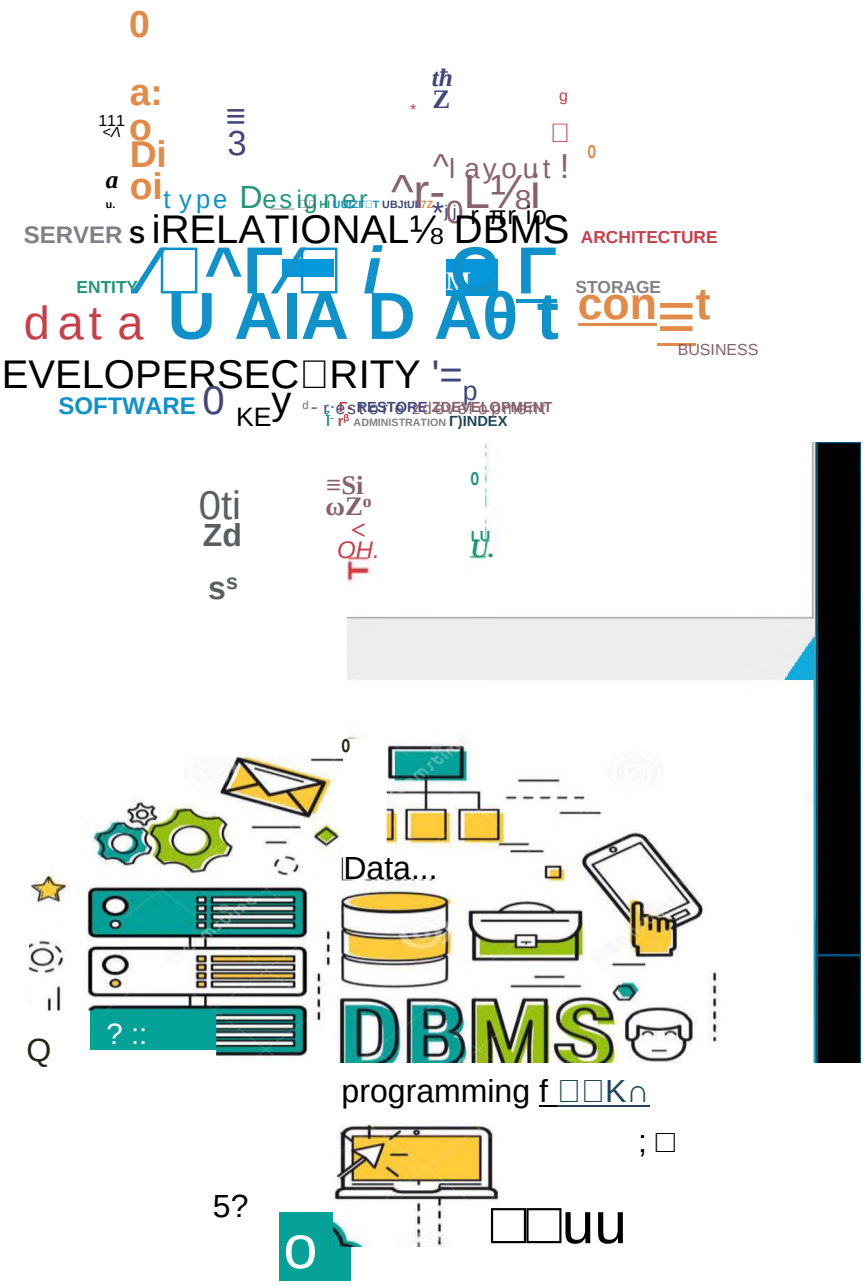

Database Management System

Database approach to Data Management

Database

A database is a logically coherent collection of data with some inherent meaning, representing some aspect of real world and which is designed, built and populated with data for a specific purpose .

DBMS

A Data Base Management System (DBMS) is a set of software programs that enables users to define, create and maintain a database. The DBMS also enforces necessary access restrictions and security measures in order to protect the database.

Database technology cuts through many of the problems a traditional file organization creates. Database serves many applications efficiently by centralizing the data and controlling redundant data. Rather than storing data in separate files for each application, data are stored so as to appear to users as being stored in only one location.

For example, instead of a corporation storing employee data in separate nformation systems and separate files for personne, payroll, ana benefits, the corporation creates a single common human resources database

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DBMS ?

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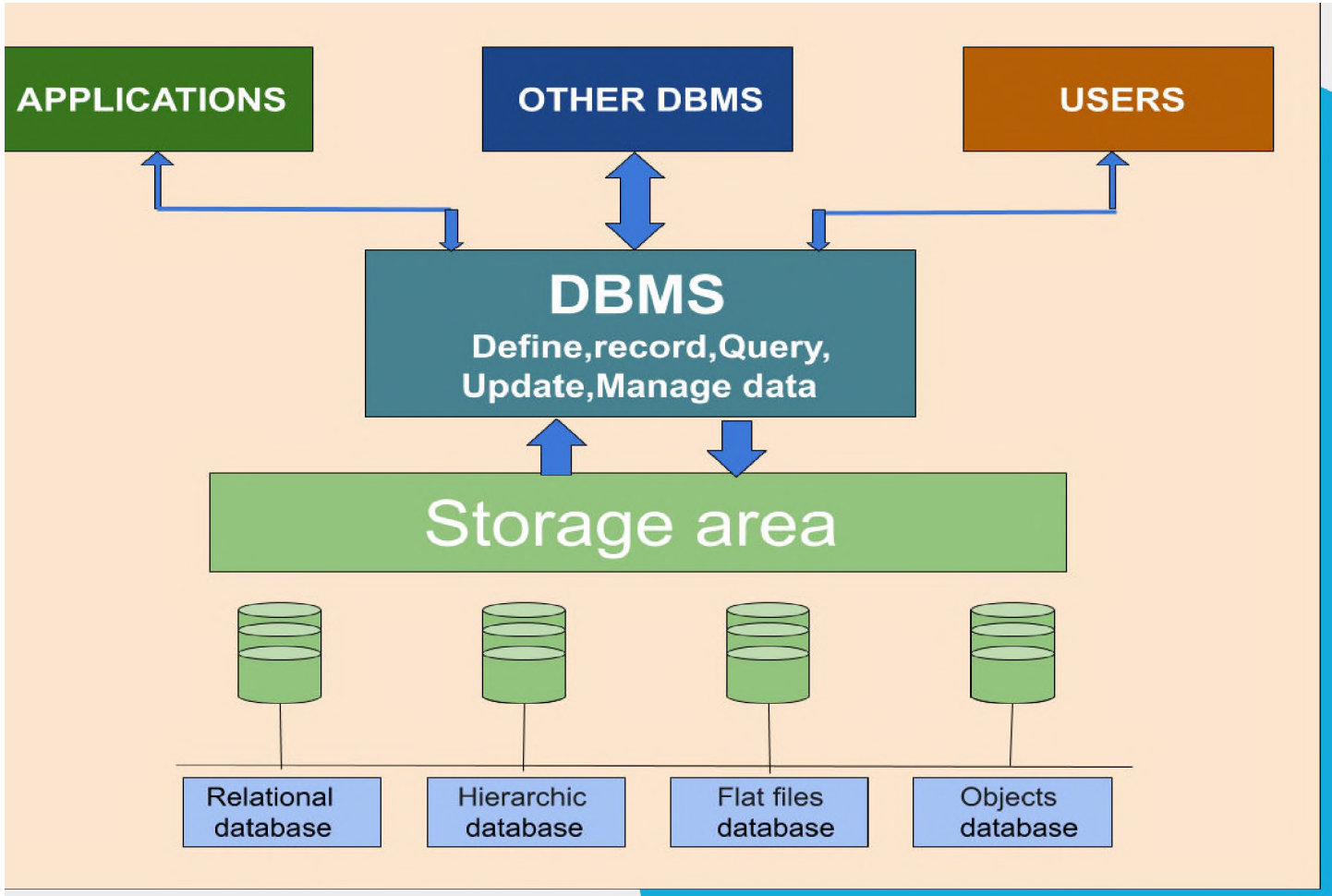
DATABASE MANAGEMENT SYSTEM



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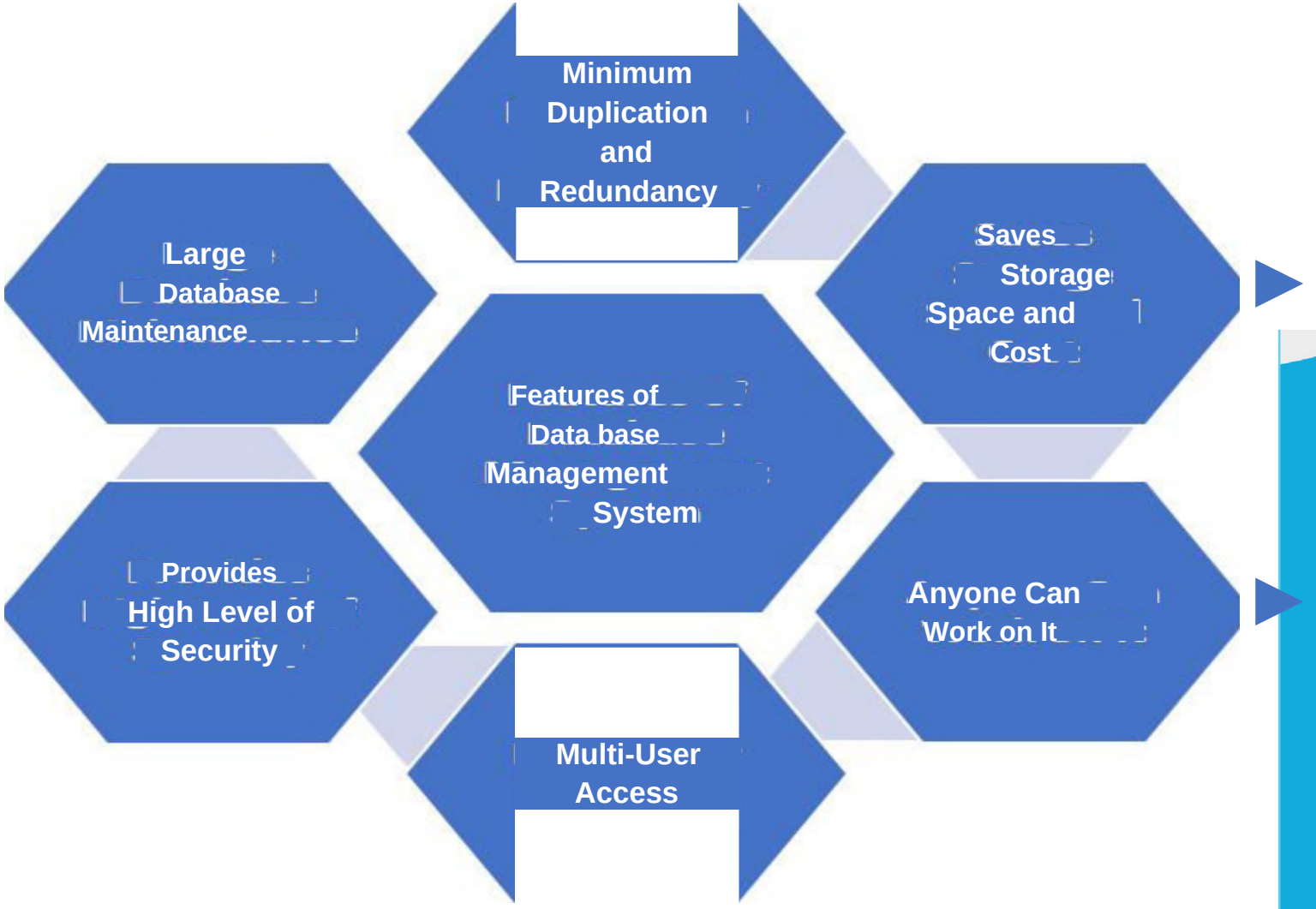


Why DBMS ?

DBMS

Without DBMS

Amazon: $837,330.25

Apple: $691,234.57

Alphabet: $426,805.56

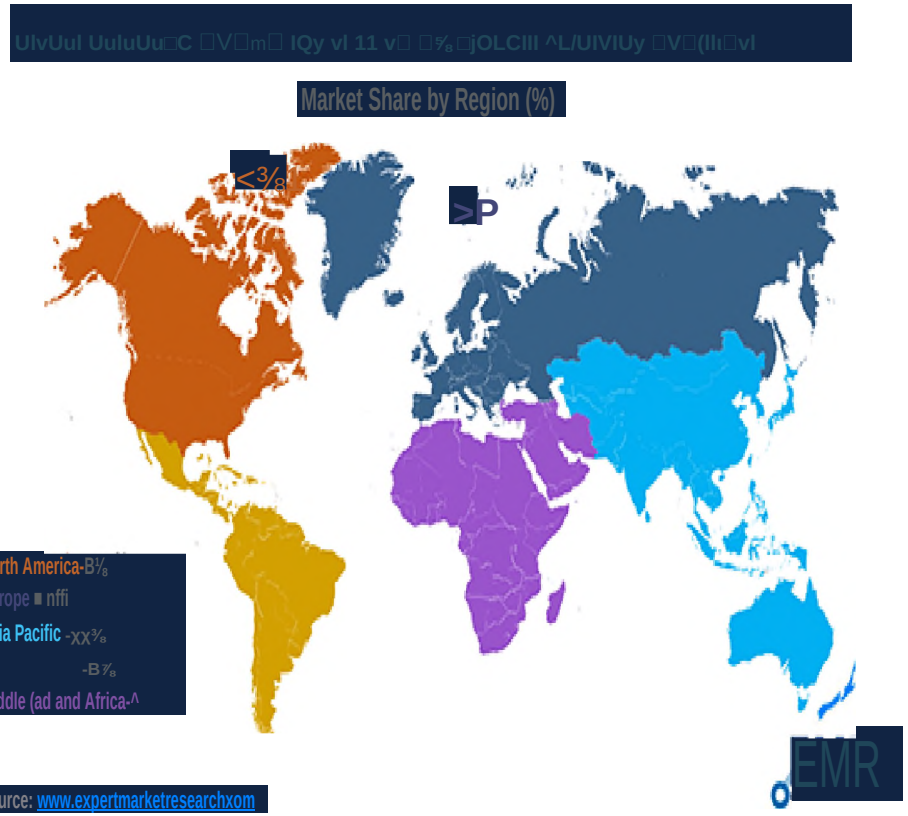
Microsoft: $321,805.56

Facebook: $201,936.73

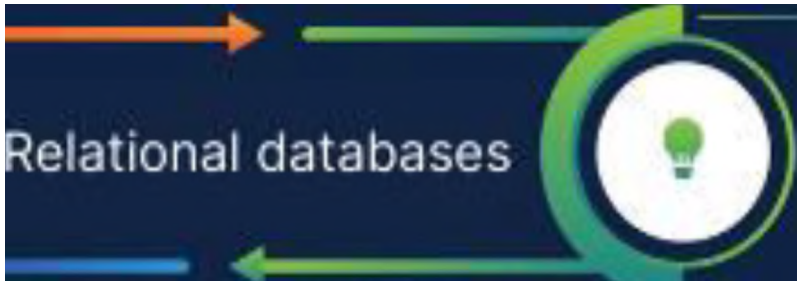
Tesla: $80,162.04

A Minute Without DBMS

Characteristics



Real-world entity



Structured query language

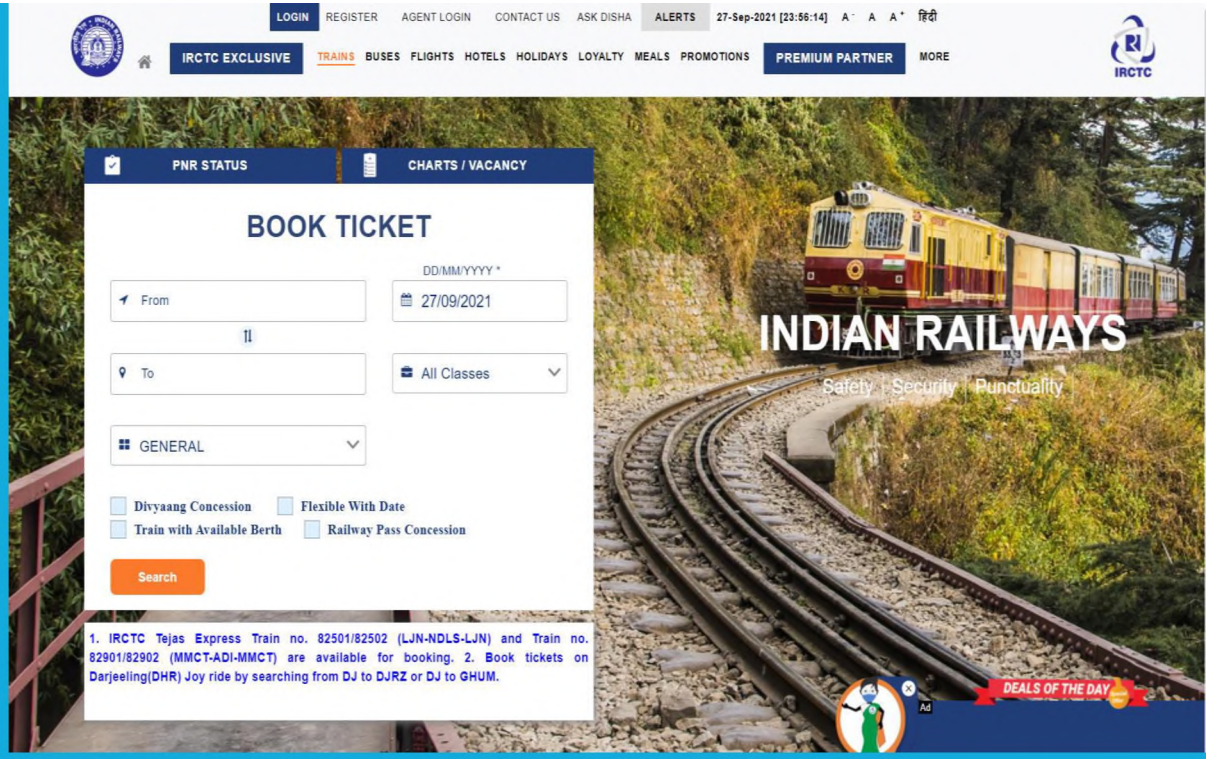
ACID properties

Multiuser and concurrent access

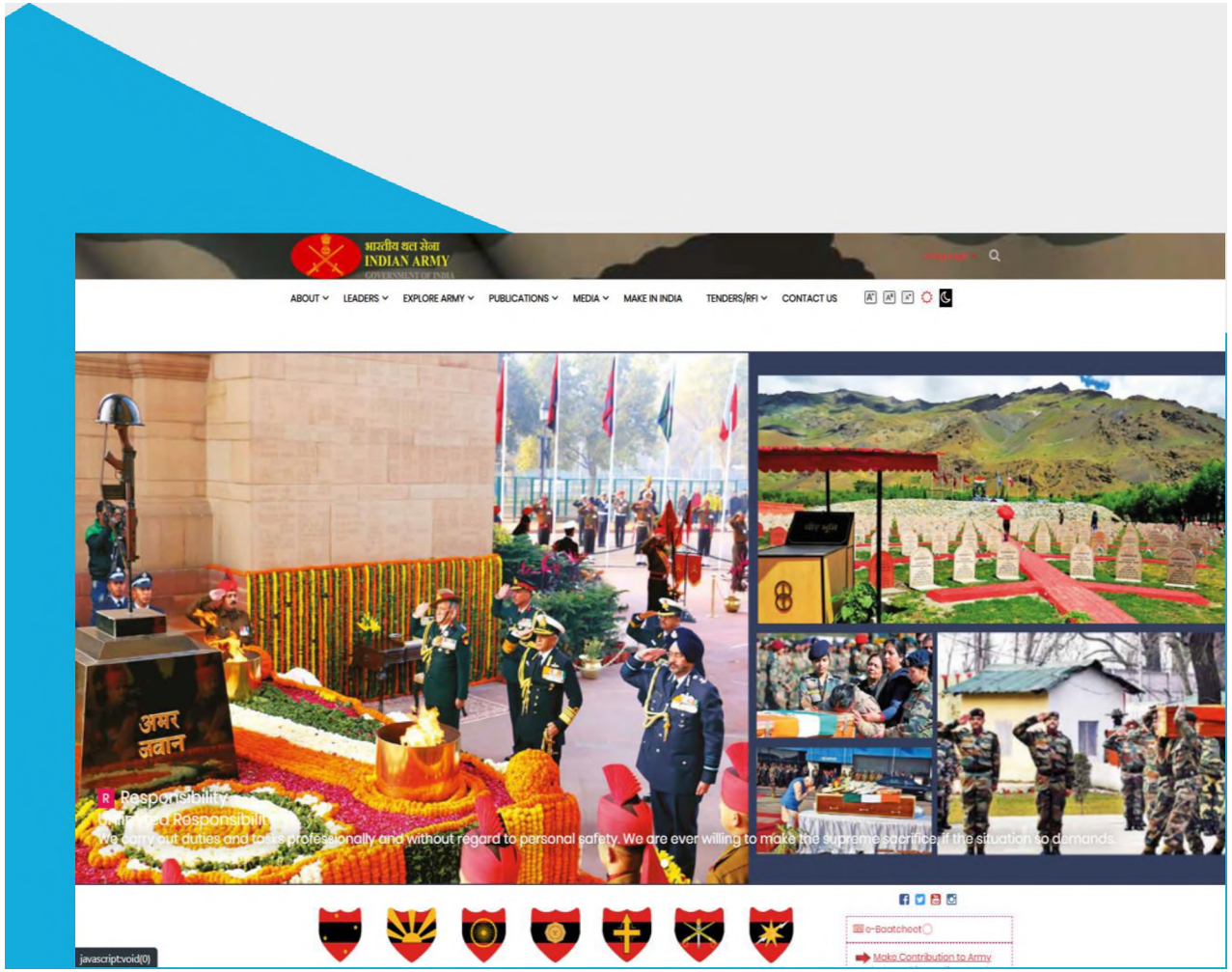
Applications of DBMS

INDIAN RAILWAY
E TICKET BOOKING

IRCTC



Applications of DBMS

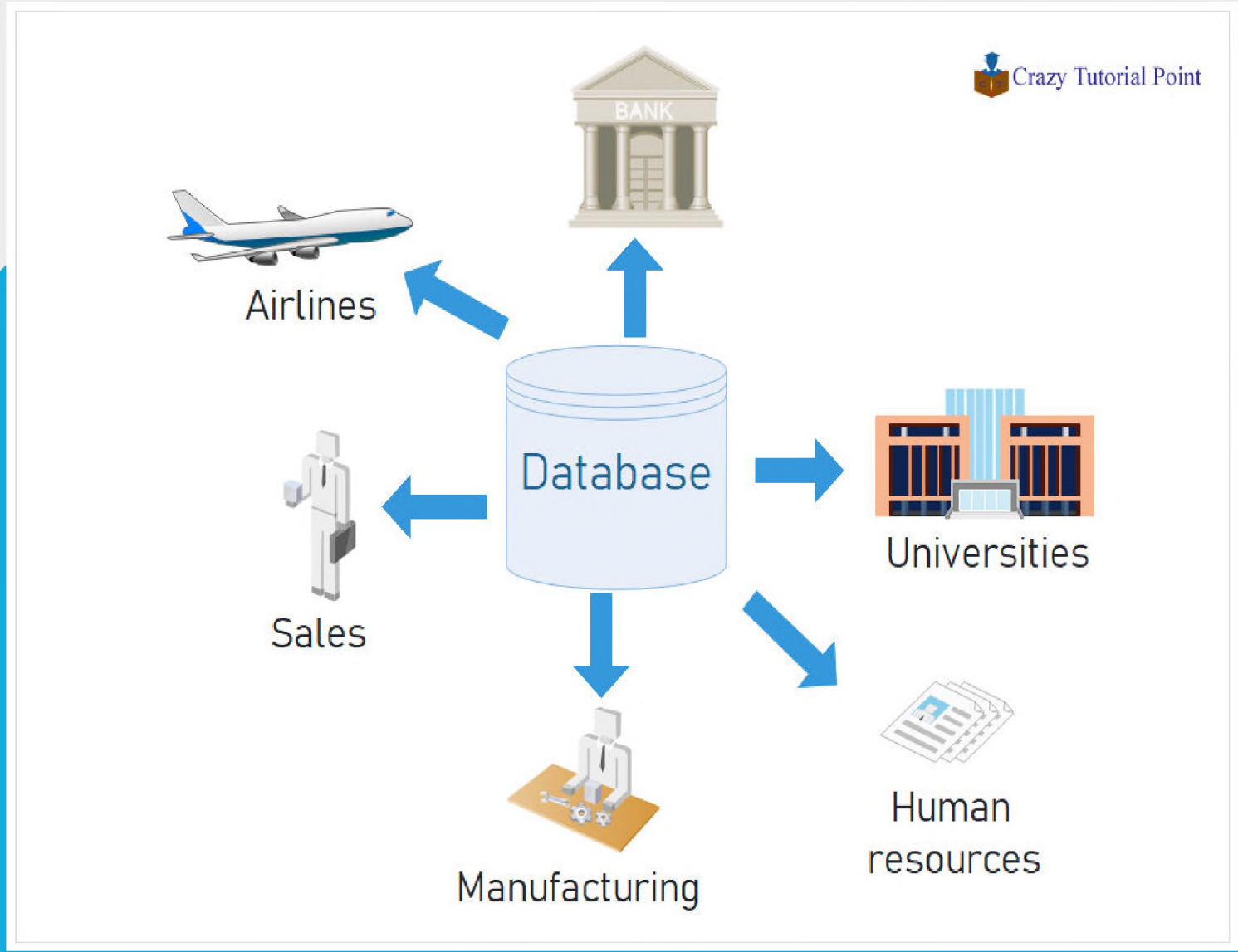


Capgemini

Applications of DBMS

DATABASE SYSTEM OF

facebook



Thank-you

Any questions?