What are the differences between...

OLTP vs OLAP

Why would an organization need an OLAP?

Ask me what's happeing

Ask me what will happen

OLTP

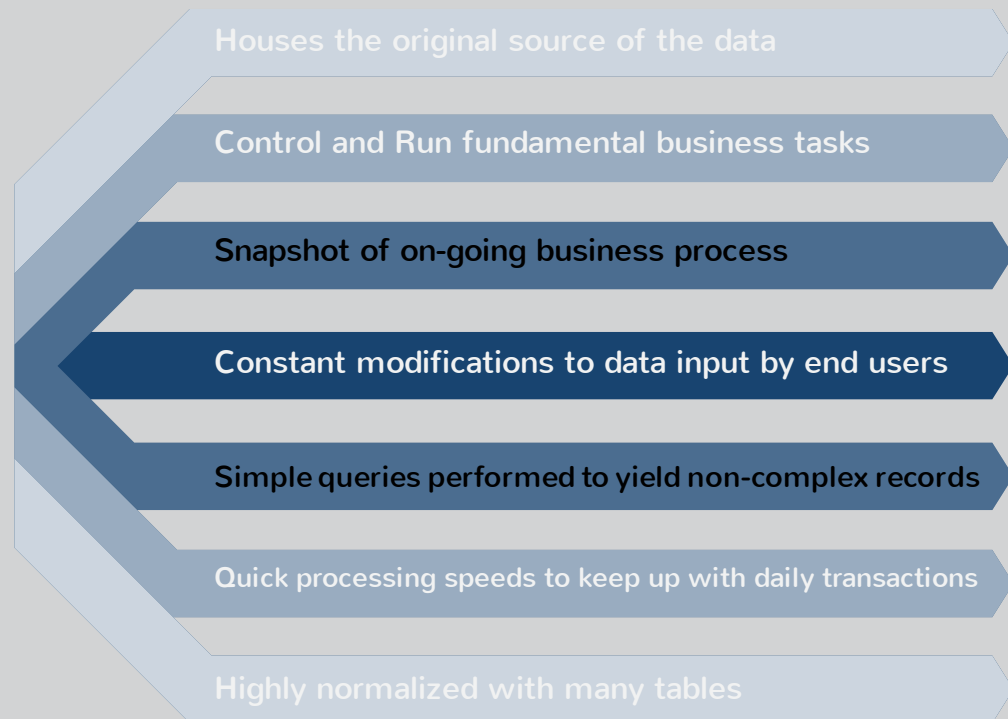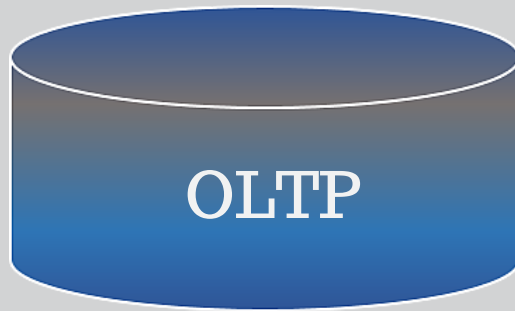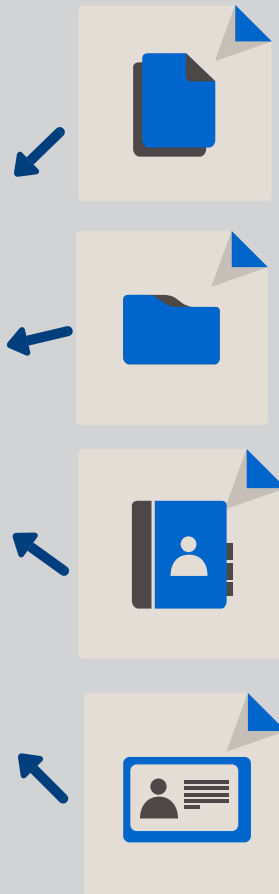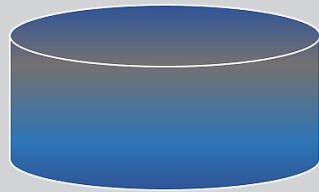OLAP

OLTP
On-Line Transaction Processing

OLAP
On-Line Analytical Processing

OLTP

OLTP's are operational systems which help execute and record the day to day operations of a business

OLTP

- Houses the original source of the data
- Control and Run fundamental business tasks
- **Snapshot of on-going business process**
- **Constant modifications to data input by end users**
- **Simple queries performed to yield non-complex records**
- Quick processing speeds to keep up with daily transactions
- Highly normalized with many tables

OLTP

With all of the information and transactions the OLTP system is required to handle, utilizing the system to run complex queries can put an extreme an unnecessary load onto the system.
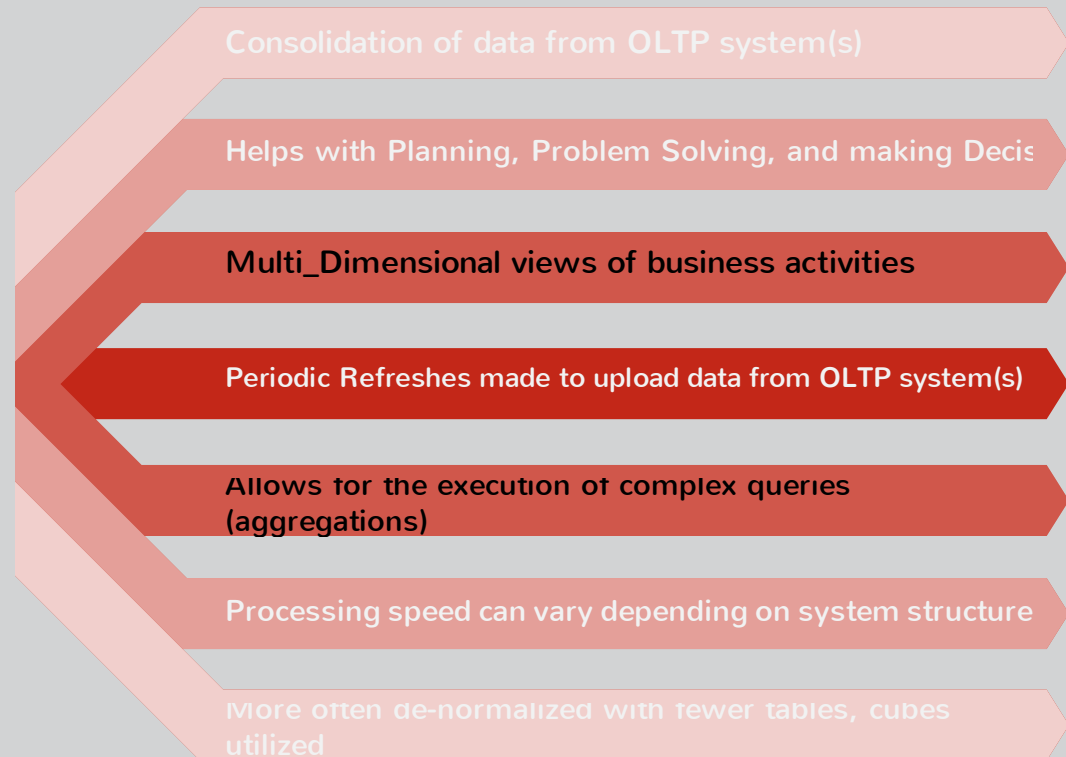
(This can in turn cause detrimental lags in the daily
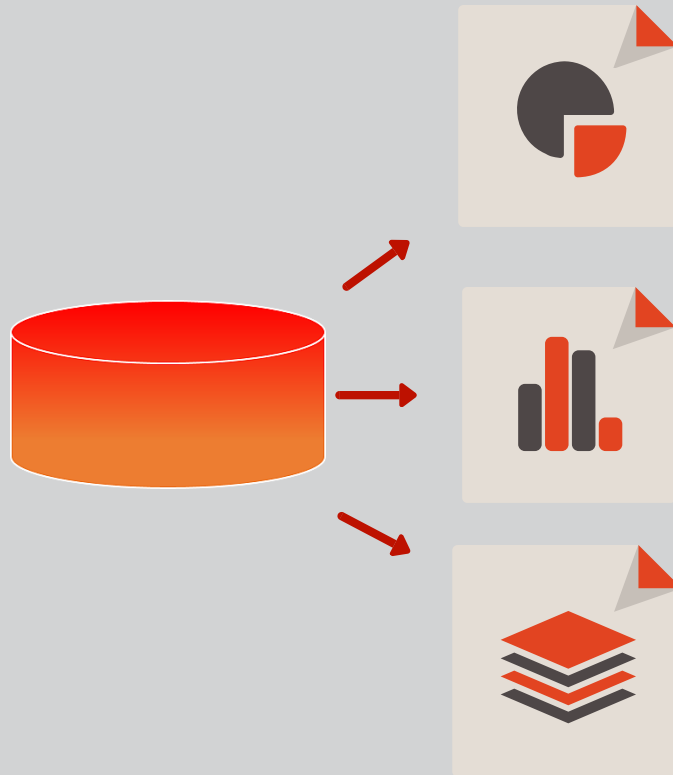'transaction' functionality, which the OLTP is designed to run)

Back ups must be done frequently as data loss in your OLTP can lead to Monetary and Legal complications.

OLAP

OLAP's are data warehouses which leverage data acquired from OLTP systems to help organizations make better decisions

OLAP

Consolidation of data from OLTP system(s)

Helps with Planning, Problem Solving, and making Decis

Multi_Dimensional views of business activities

Periodic Refreshes made to upload data from OLTP system(s)

Allows for the execution of complex queries (aggregations)

Processing speed can vary depending on system structure

More often de-normalized with fewer tables, cubes utilized

OLAP

OLAP's are comprised of all necessary data from your OLTP system, where it is structured and aggregated to allow for detail intensive queries to be performed.
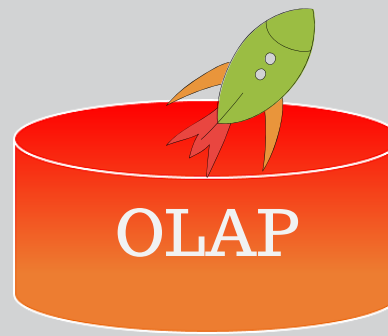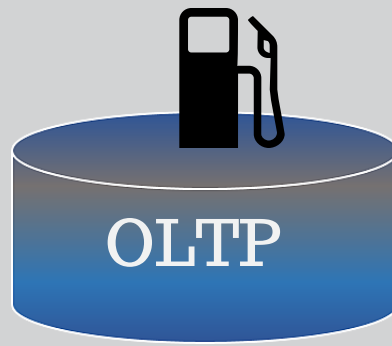
Highly Visual Reports can be extracted and presented in a manner fit for end users

A great benefit of an OLAP system is the potential for the system to be utilized as a 'back-up' of the OLTP by regularly reloading the data from the OLTP to OLAP.
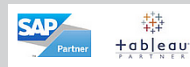
OLTP

VS

Complimentary

OLAP

OLTP → OLAP → 🙂

While it is very important to ensure you are collecting data as efficiently as possible, your ability to leverage that data to make decisions ensures operational longevity and success. The data created by your OLTP can be seen as 'fuel' for your enterprise, where an OLTP system is the vehicle which filters, extracts, and consumes that fuel to analyze, predict and propel best business practices.
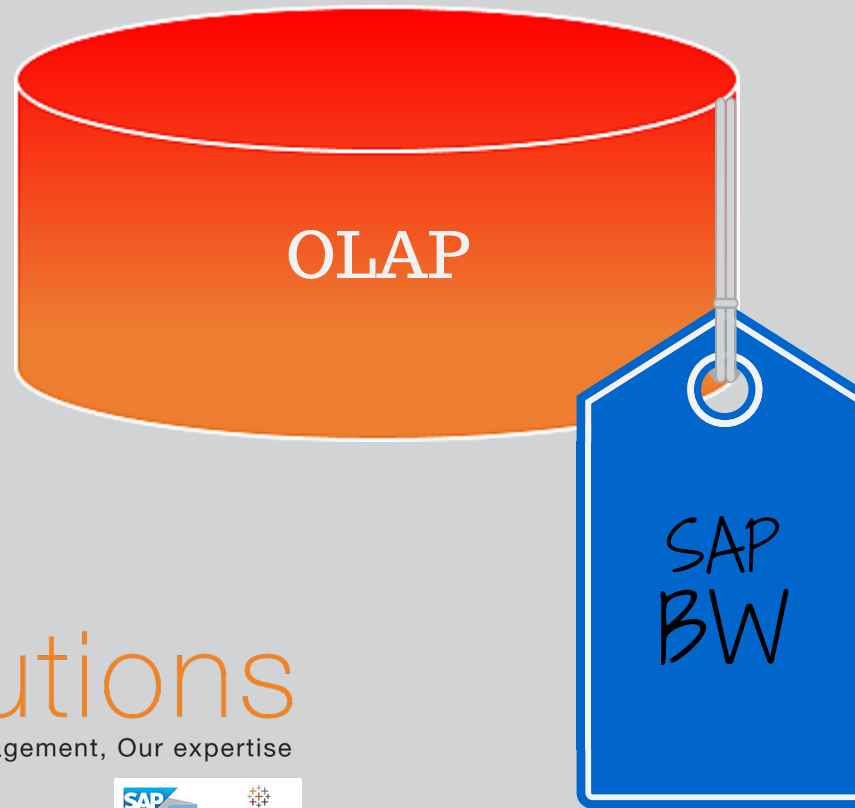
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BI Solutions BW (OLAP) Offering;

-BW/BWA -Install, Configure, Upgrade Services

-Onsite & Offsite Post Implementation Support

-Provide Training

-Provide Optimization Services

-Rapid Development Kits for Certain Verticals

OLAP

SAP BW

BI Solutions

Your business, Your management, Our expertise

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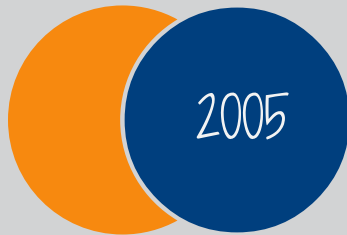tableau PARTNER

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Information

'Quick Facts'

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2005

100%

100%

1
Established
We started off with a bang and have tripled in size in the last 3 years!

2
BI & EPM
Our exclusive focus on BI & EPM means we maintain domain knowledge

3
Satisfaction
We have a 100% customer satisfaction rate and treat every customer as a partner

4
Office Locations
We have offices in; USA, UK, and India in order to best facilitate your needs