Please find these:

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|  | OLTP | OLAP | |
| Resource usage | Transaction data | Analytical data | |
| purpose | OLTP systems are designed for day-to-day, operational transactions  Example: ATM | | OLAP systems are designed for complex analysis and reporting  Example : company profits last year and loss |
| usage | Used to run the business | | used to analyze the business |

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| SLICING | DICING |
| Slice operation performs a selection on one dimension of the given cube, resulting in a sub cube. | Dicing is define a sub cube by performing a selection on two or more dimensions. |

What are data marts?

Data marts is a subset of a data warehouse that is focus on single subject.

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| Snowflake schema | Star schema | Galaxy schema |
| Is an extension of the star schema where dimension tables are normalized, leading to a more complex structure | Is a straightforward structure with a central fact table and dimension tables directly related to it. | Multiple fact tables sharing common dimension tables, providing more versatility but potentially increasing complexity. |