1. Which of the following can be a definition of Data Warehouse ?

Ans:- A read only historic database stored together

1. What are the typical Data Warehouse DML operations ?

Ans:- batch inserts..many records

1. Which of the following could be a fact table ?

Ans:- sales

1. Which of the following can be identified as a Fact table ?

Ans:- orders

1. What is the time interval that an ETL should occur ?

Ans:- depends

1. What is the advantage of a star schema over a snowflake (3NF) ?

Ans:- better performance of queries

1. What is the advantage of [Normalization](https://moodle.stmartin.edu/mod/resource/view.php?id=549963) (snowflake) over the Star Schema ?

Ans:- integrity of updates

1. What does a Data Dictionary of a DW should have that you would not have in a Data Dictionary of an OLTP Database ?

Ans:- all

1. Who proposed the Star Model ?

Ans:- ralph Kimball

1. Who first proposed the concept of separating  transactional data from analytical data ?

Ans:- bill inmon

1. A Data Warehouse is concerned with historic data and snapshots while OLTP Databases are typically concerned with current data only.

Ans:- true

1. A Data Warehouse is concerned with analytic data and while OLTP Databases contains the company's daily business operations.

Ans:- true

1. Cleansing the data can be difficult and we may use some form of Artificial Intelligence

Ans:- true

1. A DW imports Data from the Company's Operational Database (Internal) as well as from External Databases

Ans:- true

1. The following can be viewed as a sophisticated Staging Area where the end-user of a Data warehouse may be able to query data from

Ans:- true

1. ETL stands for

Extract, transform, load

1. Choose best answer. Artificial Intelligence

Ans:- all

1. Which is true about a Data Warehouse with Independent Data Marts  ?

Ans:- architecture is better for ETL Smaller/Simple ETL

1. Which is true about a Data Warehouse ?

Ans:- all

1. Which is true about a fact table ?

Ans:- all

1. What is true about a surrogate key ?

Ans:- all

1. Why are Primary Keys of Dimension tables surrogate keys ?

Ans:- all

1. What are good characteristics of Primary Key ?

Ans:- all

1. What is true about Microsoft's SSIS ?

Ans:- all

1. Which one is a good reason for having separate dimensions for date and time ?

Ans:- most queries focused on day or time

1. What is time series data ?

Ans:- data collected in period

1. What is true about the granularity of a fact table ?

Ans:- the granularity of fact table should represent a single transaction.

1. If we have a fact table Orders with 10000 rows

and we have a dimension table  customers with 1000 rows,

How many rows will we need to access with the query

SELECT   cust\_name,  dollars  FROM

Customers c,  Orders o

WHERE c.custID = o.custID;

Ans:- 10,000,000

1. If we Have the following Fact Table;

Sales [SalesID, Date, Time, ProductID, Quantity, SaleAmount] we can do which of the following queries ?

Ans:- all

1. With the following fact table, which of the queries can be done ?

Sales [Date, pid,  WeekySalesAmount, did]

Ans:- weekly and monthly