

Sec-2

Ans-2

S.No	Data warehouse system	Database system
1.	It involves historical processing of information	It involves day-day processing
2.	It is used to analyze the business	It is used to run the business
3.	It focuses of information out	It focuses on data in
4.	It contain historical data	It contain data.

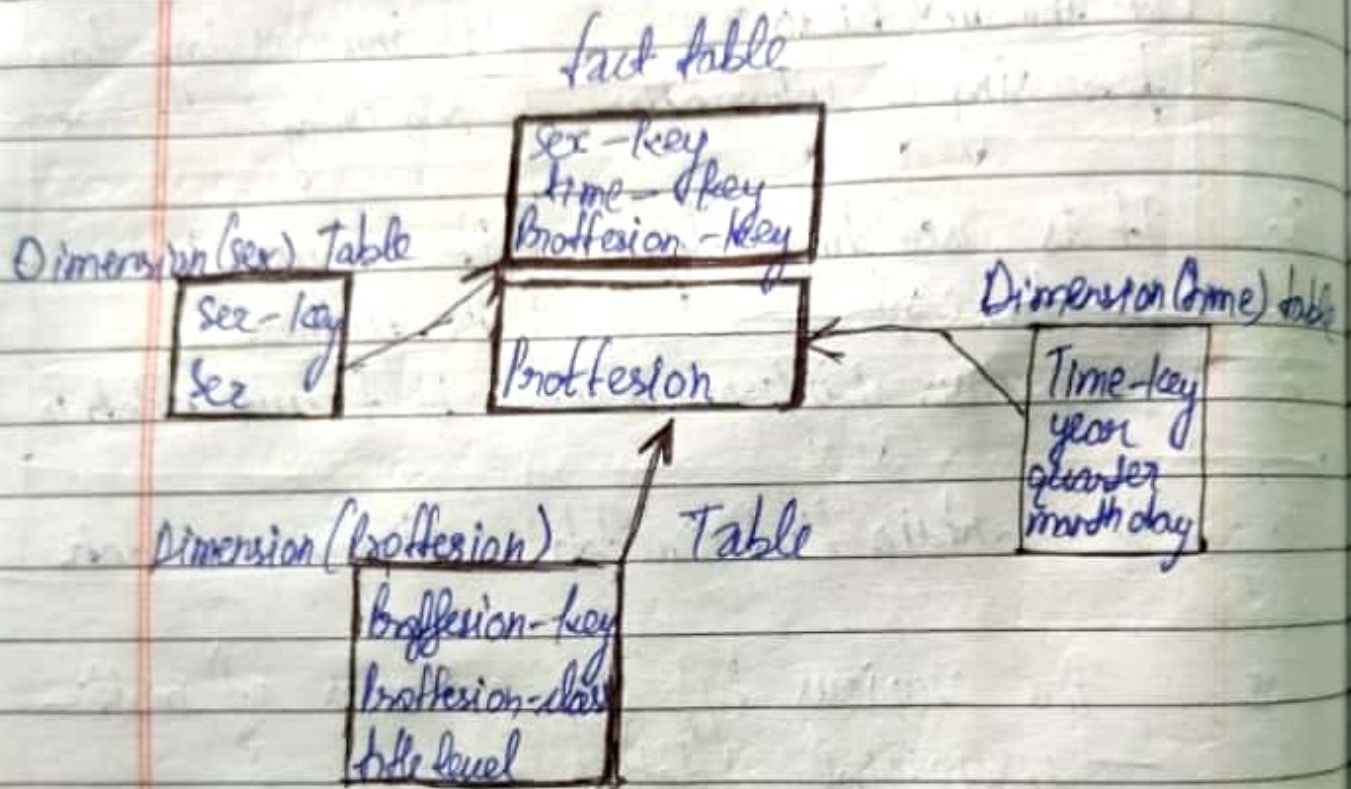
8 The various type of schemas of multi-dimensional data model.

1. The simplest data warehouse schema is star schema because its structure resembles a star.

2. The main characteristic of star schema are that it is easy to understand and small number of tables can join.

3. The advantage of star schema is that it provides highly optimized performance for typical star queries.

Example :- Let us consider the "Employment" data warehouse. They have 3 dimension table and one fact table. The star scheme is show in diagram.



(Star Schema)

Snow flake schema:

- 1] The snow flake schema is different from star schema because dimension tables of the snow flake are normalized.
- 2] The snow flake schema is represented by centralized fact table which is connected to multiple dimension table.

Dimension (Item) Table

Item-key
Item-name
type
Supplier-key

fact table

time-key
Item-key
location-key

Rupees-Sold
Units-Sold

(Dimension time table)

Time-key
year
month
day

Dimension (location) table

location-key
city-key

Dimension (supplier) table

Supplier-key
Supplier-name
Supplier-address
Supplier-type

Dimension (city) table

city-key
city-name
state

(Snow flake schema)

fact constellations Schema

- 1] A fact constellation can have multiple fact tables that share many dimension table.
- 2] The main disadvantage of fact constellation schema is its more complicated design.

Fact-1

Fact-2

Dimension 1 - key  
Dimension 2 - key  
Dimension 3 - key  
Summary

Dimension 2 - key  
Dimension 3 - key  
Dimension 4 - key  
Summary

Dimension-1  
Schema

Dimension-3  
Schema

Dimension-2  
Schema

Dimension-4  
Schema

(Fact constellation)