**Problem set 3:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Measure** | *Customer* | *Location* | *Sales Class* | *Sales Agent* | *Machine Type* |
| *Profit amount and margin* | x | x | x |  |  |
| *Returns* | x | x | x |  |  |
| *Shipping delays* | x | x | x |  |  |
| *Revenue (job)* | x | x | x |  | x |
| *Revenue (invoice)* | x | x | x | x |  |
| *Costs (subjob)* |  | x | x |  | x |
| *Ratio among types of costs* |  | x | x |  | x |
| *Gross margin* | x | x | x | x | x |
| *Forecasting performance* |  | x | x |  |  |
| *Budgeting performance* |  | x | x |  | x |
| *Intra company sales* |  | x | x |  |  |
| *Shared machine usage* |  | x |  |  | x |
| *Lead success rate* | x |  | x | x |  |

**Q1.** How is DB time measured in the AWR?

Ans. Total DB time = sum of DB time for all active sessions. DB Time is the total time in database calls by foreground sessions – Includes CPU time, IO time and non-idle wait time.

DB Time is the response time.

**Q2.** What is one dictionary table in the AWR? Identify the table name and at least three columns in the table?

AWR data includes 4 tables:

DBA\_Hist\_Snapshot, (Snap\_Id,DBID,Instance\_Number)(PK)

DBA\_Hist\_System\_Event,

DBA\_Hist\_SQLStat,

DBA\_Hist\_Time\_Model.

All three tables are joined to DBA\_Hist\_Snapshot by Foreign Key.(Snap\_ID,DBID,Instance\_Number) (FK)

Q3. What is the name of the Oracle view table used by the Active Session History (ASH) sampler?

Ans. V$ACTIVE\_SESSION\_HISTORY

Q4. Identify at least two dimension columns in the ASH fact table.

Ans. Columns are

SQL statement identifier

object number