





INTERPRETING

- In $R(\text{Retail_store})$, 'newest_cost' will auto update with the newest 'item_price' of each 'item_id' along with 'stock_available' change.
- In $R(\text{Retail_store})$, 'newest_sellprice' will auto update with the newest 'newest_cost' of each 'item_id' depend on setting, ex: $\text{sell price} = 1.2 * \text{cost}$.
- In $R(\text{Retail_store})$, 'last_update' auto update now() when 'stock_available' of any 'item_id' change (sell or buy actions).
- In $R(\text{PLACE ORDER})$, 'total_price' is generated by $\text{SUM}(\text{item_price} * \text{item_quantity}) \text{ GROUP BY 'order_id'}$ from 'SUPPLY GOODS' actions.
- In $R(\text{ISSUING RECEIPT})$, 'total_payment' is generated by $\text{SUM}(\text{item_price} * \text{item_quantity}) \text{ GROUP BY 'receipt_id'}$ from 'BUYING GOODS' actions.
- All of Relation are qualified 3rd Normal Form, every Attribute in each Relation are identified by its Primary KEY
- SUPER KEY -> NON PRIME KEY
- NO Multi-Value Attribute.
- NO Partial Dependency (avoid redundant).
- NO Transitive Dependency for non-prime attributes.