



## **Group 5.15**

## **FUNCTIONAL DEPENDENCIES**

- ➤ Material Master
- Material\_ID → { Material\_Name, Material\_Type, Storage\_Condition, Shelf\_Life, Therapeutic Category, Material state, isHazardous, isInflammable, UOM }
- This is in BCNF form with primary key Material ID
- ➤ Product\_Master
- Product\_ID → { Product\_Name, Generic\_Name, Product\_type, Packing\_type, Packing\_size, SalebleorSample, GenericorBranded }
- This is in BCNF form with primary key Product ID
- > Warehouse
- { Material ID, Invoice No } → {UT Q A, Stock, Val, Buy Qty}
- This is in BCNF form with primary key Item\_ID
- ➤ Formula Master
- {Product ID, Material ID} → { Weight per tablet }
- This is in BCNF form with primary key {Product ID, Material ID}
- ➤ Material Dispensing
- {Batch No, Invoice No, Material ID} → { Qty Issued }
- This is in BCNF form with primary key {Batch\_No, Item\_ID}
- ➤ Batch
- Batch\_No → {Product\_ID, Batch\_Size, Mfg\_Date, Exp\_Date, Stock\_Qty, UT\_Q\_A}
- This is in BCNF form with primary key Batch\_No
- ➤ Account\_Master
- Account\_No → { Account\_Name, Phone\_No, Address }
- This is in BCNF form with primary key Account No

## > Transactions

- InvoiceNo → {Account\_no, Transaction\_Date, Transaction\_type, Currency, Total\_Value, Paid\_Received}
- This is in BCNF form with primary key InvoiceNo
- ➤ FG\_Transaction
- {InvoiceNo, Batch\_No} → {Sale\_Qty, Val}
- This is in BCNF form with primary key {InvoiceNo, Batch\_No}
- ➤ Product\_Quality\_Check
- Report\_ID → {Batch\_No, Analysis\_date, Analyst\_name, Sample\_size, Process\_Stage, Test,Limits, Result}
- This is in BCNF form with primary key Report\_ID
- ➤ Material\_Quality\_Check
- Report\_ID  $\rightarrow$  {Material\_ID, Invoice\_No , Analysis\_date, Analyst\_name, Sample\_size, Process\_Stage, Test, Limits, Result}
- This is in BCNF form with primary key Report\_ID