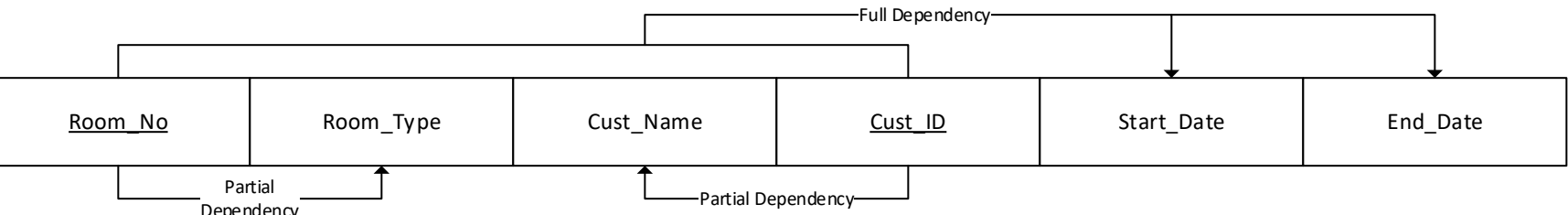


QUESTION 1

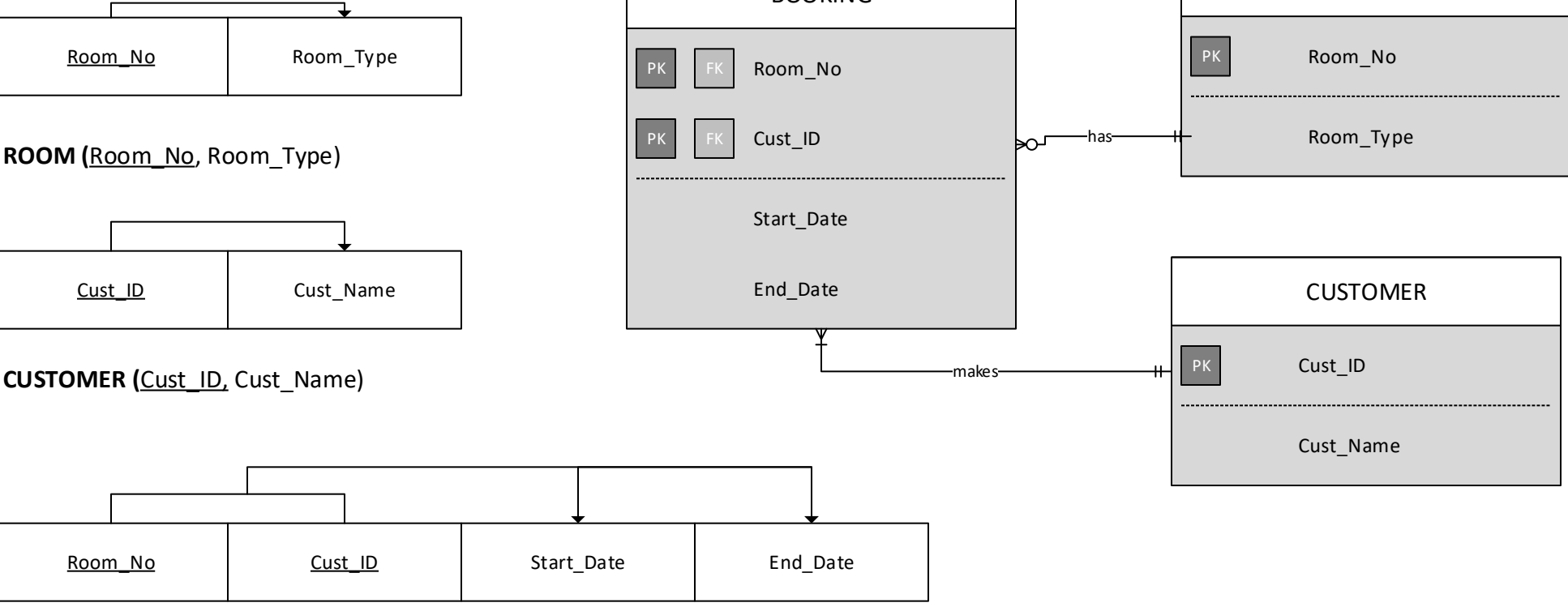
1NF
Room_No, Cust_ID, Room_Type, Cust_Name, Start_Date, End_Date



Partial Dependency
Room_No -> Room_Type
Cust_ID -> Cust_Name

Full Dependency
Room_No, Cust_ID -> Start_Date, End_Date

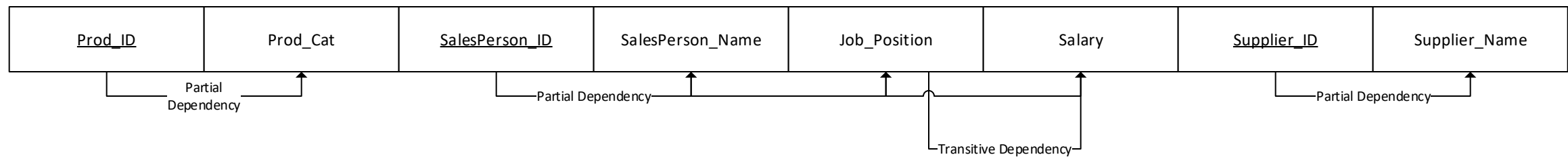
2NF/3NF



BOOKING (Room_No, Cust_ID, Start_Date, End_Date)

QUESTION 3

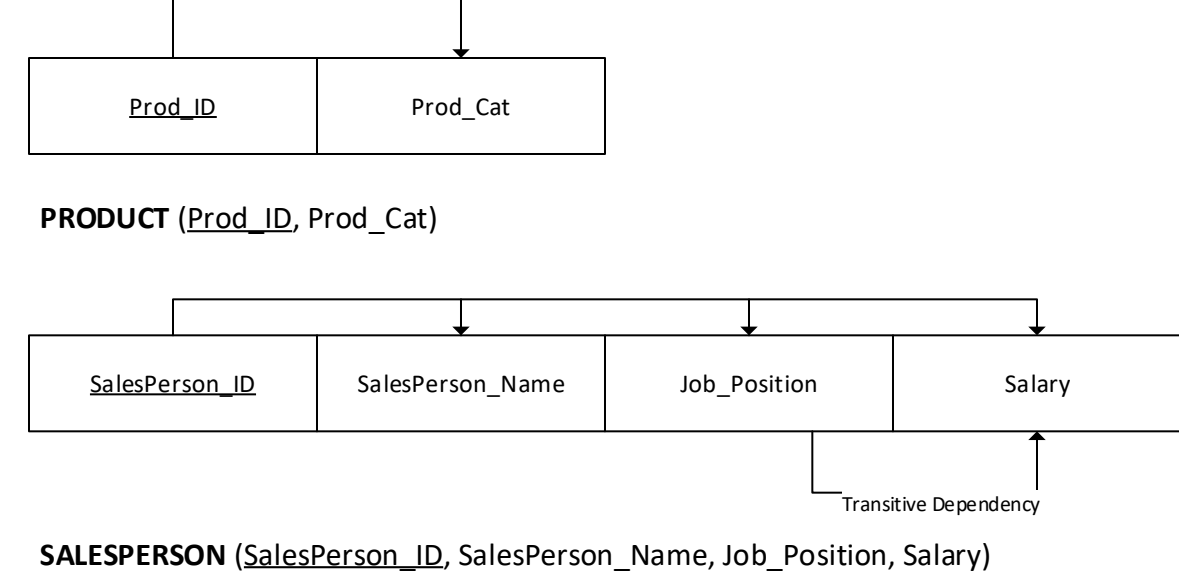
1NF
Prod_ID, Prod_Cat, SalesPerson_ID, SalesPerson_Name, Job_Position, Salary, Supplier_ID, Supplier_Name



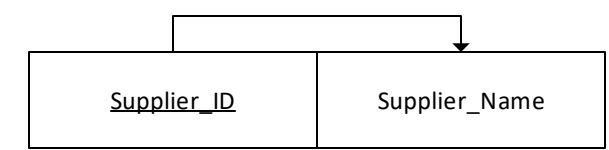
Partial Dependency
Prod_ID -> Prod_Cat
SalesPerson_ID -> SalesPerson_Name
Supplier_ID -> Supplier_Name

Transitive Dependency
Job_Position -> Salary

2NF

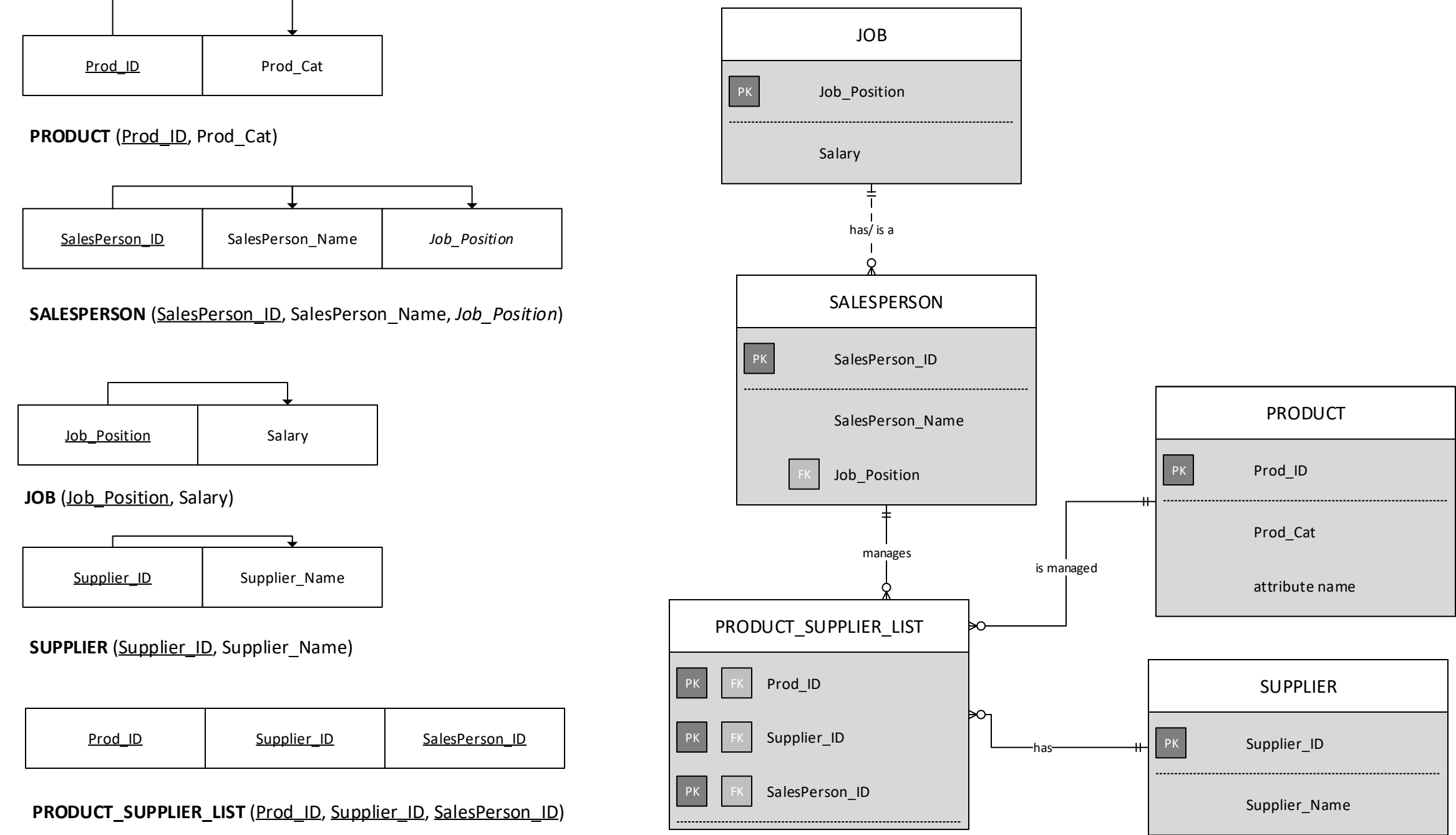


SALESPERSON (SalesPerson_ID, SalesPerson_Name, Job_Position, Salary)



SUPPLIER (Supplier_ID, Supplier_Name)

3NF

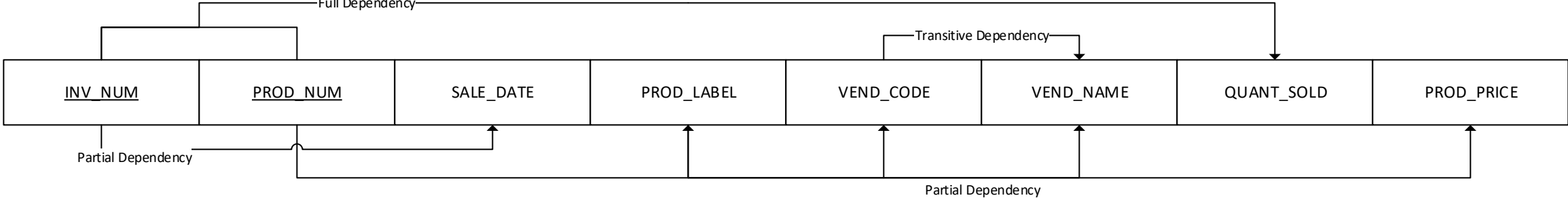


PRODUCT_SUPPLIER_LIST (Prod_ID, Supplier_ID, SalesPerson_ID)

QUESTION 2

1NF

INV_NUM, PROD_NUM, SALE_DATE, PROD_LABEL, VEND_CODE, VEND_NAME, QUANT_SOLD, PROD_PRICE

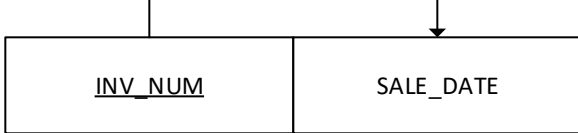


Partial Dependency
INV_NUM -> SALE_DATE
PROD_NUM -> PROD_LABEL, VEND_CODE, VEND_NAME, PROD_PRICE

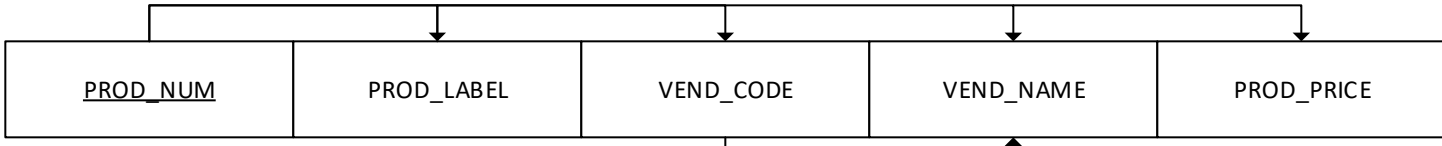
Full Dependency
INV_NUM, PROD_NUM -> QUANT_SOLD

Transitive Dependency
VEND_CODE -> VEND_NAME

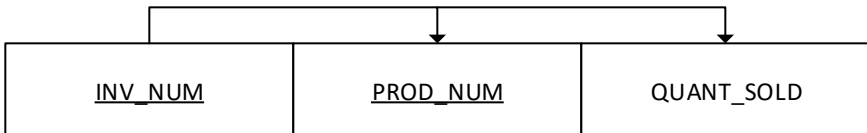
2NF



INVOICE (INV_NO, SALE_DATE)

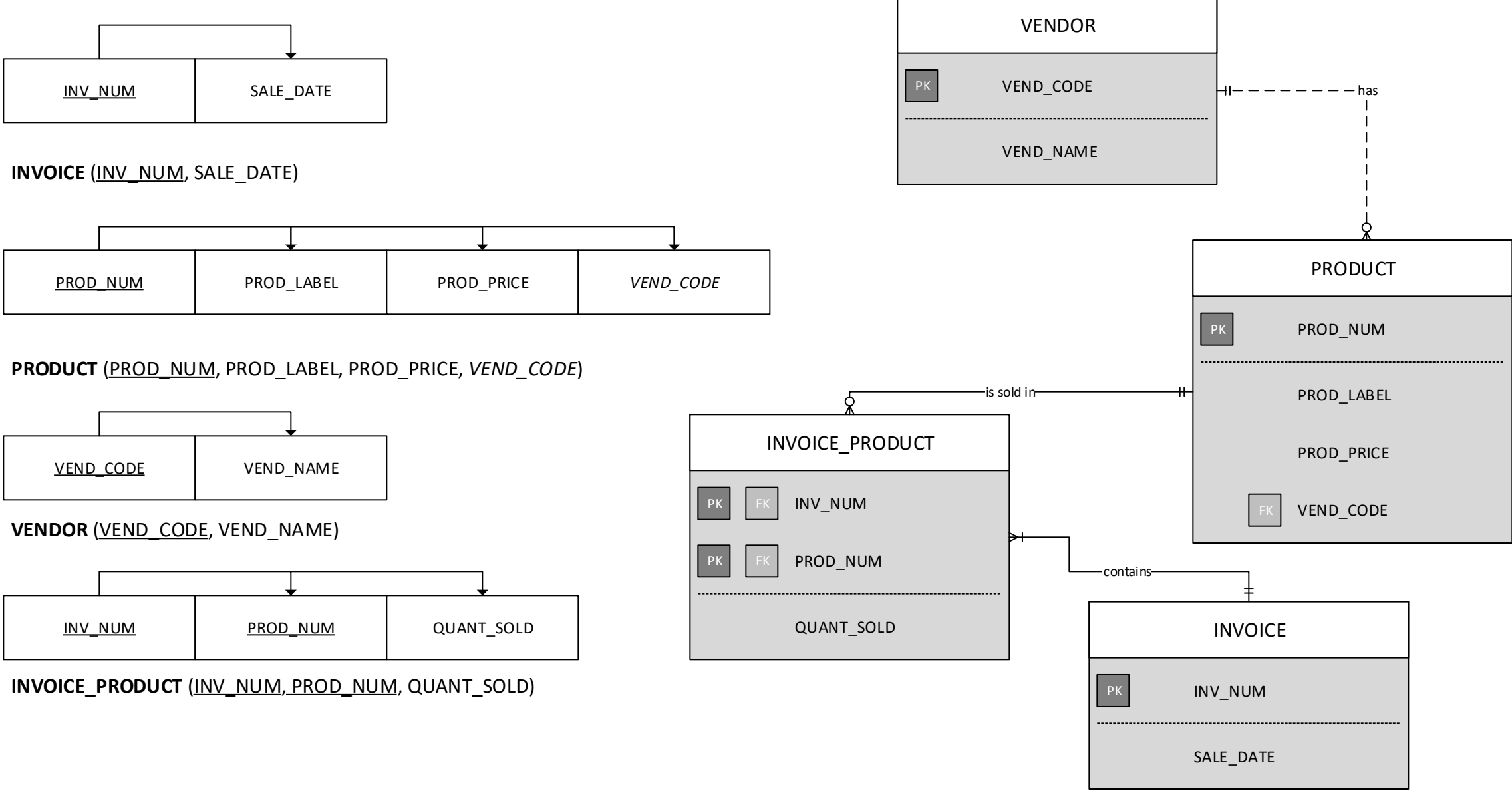


PRODUCT (PROD_NUM, PROD_LABEL, VEND_CODE, VEND_NAME, PROD_PRICE)



INVOICE_PRODUCT (INV_NUM, PROD_NUM, QUANT_SOLD)

3NF

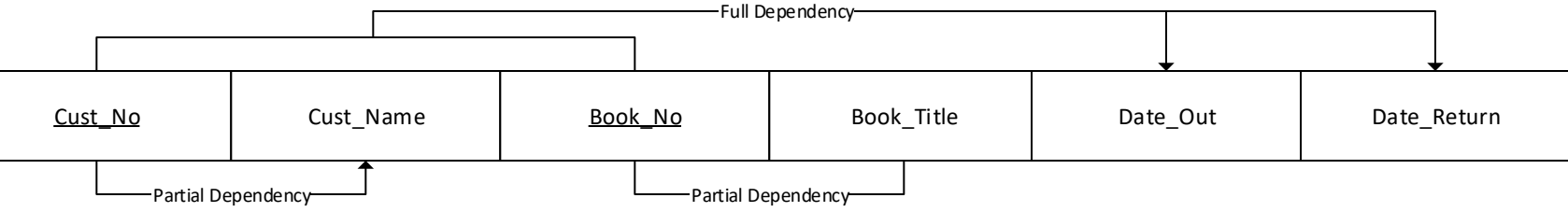


INVOICE_PRODUCT (INV_NUM, PROD_NUM, QUANT_SOLD)

QUESTION 4

1NF

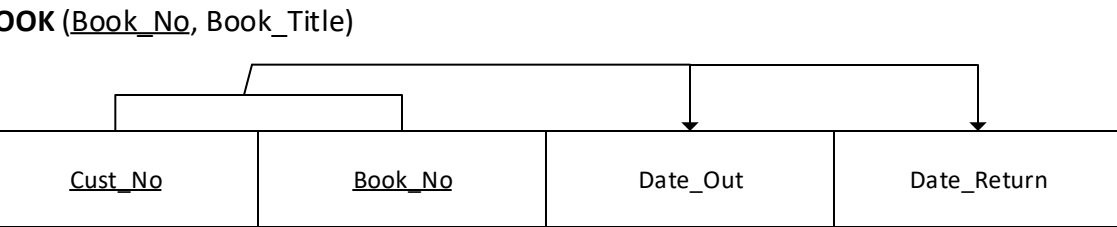
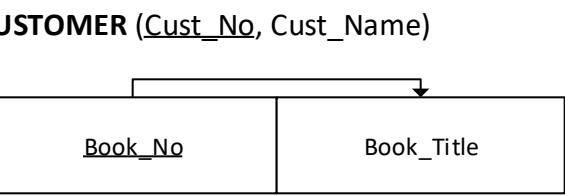
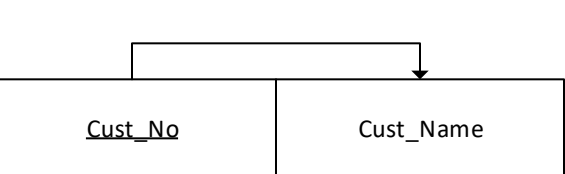
Cust_No, Cust_Name, Date_Out, Date_Return, Book_No, Book_Title



Partial Dependency
Cust_No -> Cust_Name
Book_No -> Book_Title

Full Dependency
Cust_No, Book_No -> Date_Out, Date_Return

2NF/3NF



BOOK_RENTAL (Cust_No, Book_No, Date_Out, Date_Return)

