

DBMS Project Group G3_3

: Minimum FDS for each relations :

Products :

Itemcode → {Unit_price, Itemname, Unit_on_order, Quantityperunit, Unit_stock, Picture_link, Reorder_Level, Unit_weight, Productdescription, category_id}

P_Supplied :

{ShiperID, Item_code} → {Quantity, Supplied_Date, Status}

Supplier :

SupplierID → {Supplied_via}

Food_Invoice :

f_Invoice_num → {f_Invoice_date, User_id}

Food_InvoiceDetails :

{Food_id, f_invoice_num} → {f_Qty, f_price}

Food_Items :

Food_id → {Food_Describtion, Food_item, Food_type, Food_image, Food_price}

Food_Cart :

{Food_id, user_id} → {f_Total_price, f_Particular_Quantity, f_Total_Quantity}

Employee :

Eno → {Last_Name, M_Name, F_Name, Age, Sex, Salary, Phone, Date of Joining, Sup_Eno, dno, Admin_id}

Department :

$Dno \rightarrow \{Name, Mgr_eno\}$

Dependents :

$\{Dep_Name, Eno\} \rightarrow \{Relation, DOB, Sex\}$

Admin :

$Admin_id \rightarrow \{Admin_name, Password\}$

P_cart :

$\{Item_code, user_id\} \rightarrow \{Total_price, Particular_Quantity, Quantity\}$

Added_Date :

$\{Item_code, Eno\} \rightarrow \{Added_Date\}$

P_Invoice :

$Invoice_num \rightarrow \{Invoice_date, User_id\}$

P_Invoicedetails :

$\{item_code, invoice_num\} \rightarrow \{Qty, Price\}$

User_D :

$User_id \rightarrow \{L_Name, F_Name, User_gender, User_birthdate, User_age, User_pincode, User_city, User_street\}$

Order :

$Orderid \rightarrow \{Status, Order_number, Order_date, Expected_Date, User_id, shipper_id, Shipper_date\}$

Shipper :

Shipperid \rightarrow {Shipper_name, Contact No.}

Category :

Category_id \rightarrow {category_name}

: Prove that Relations are BCNF :

Products : This relation is in BCNF because there is no such FDs which violates the BCNF.

P_Supplied : This relation is in BCNF because there is no such FDs which violates the BCNF.

Supplier : This relation is in BCNF because there is no such FDs which violates the BCNF.

Food_Invoice : This relation is in BCNF because there is no such FDs which violates the BCNF.

Food_InvoiceDetails : This relation is in BCNF because there is no such FDs which violates the BCNF.

Food_Items : This relation is in BCNF because there is no such FDs which violates the BCNF.

Food_cart : This relation is in BCNF because there is no such FDs which violates the BCNF.

Employee : This relation is in BCNF because there is no such FDs which violates the BCNF.

Department : This relation is in BCNF because there is no such FDs which violates the BCNF.

Dependents : This relation is in BCNF because there is no such FDs which violates the BCNF.

Admin : This relation is in BCNF because there is no such FDs which violates the BCNF.

P_cart : This relation is in BCNF because there is no such FDs which violates the BCNF.

Added_Date : This relation is in BCNF because there is no such FDs which violates the BCNF.

P_invoice : This relation is in BCNF because there is no such FDs which violates the BCNF.

P_invoicedetails : This relation is in BCNF because there is no such FDs which violates the BCNF.

User : This relation is in BCNF because there is no such FDs which violates the BCNF.

Order : This relation is in BCNF because there is no such FDs which violates the BCNF.

Shipper : This relation is in BCNF because there is no such FDs which violates the BCNF.

Category : This relation is in BCNF because there is no such FDs which violates the BCNF.