Purchase-Order Relational Database

Customer

Foreign Key: order number, product Id

FD:

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Relational Schema: Customer (customer Id INT(5), first name VARCHAR(50), last name
VARCHAR (50), phone num VARCHAR (16), address VARCHAR (100), email VARCHAR(100))
Primary Key: customer Id
Foreign Key: None
FD:
      customer Id → first name
      customer Id → last name
      customer Id → first name
      customer Id > phone num
      customer Id → address
      customer Id → email
Payment
Relational Schema: Payment(payment Id INT(10), payment amount DECIMAL(6,2),
payment type VARCHAR(50), customer Id INT(5), order number INT(10))
Primary Key: payment Id
Foreign Key: customer Id (NOT NULL), order number
FD:
      payment_Id → payment_amount
      payment Id → payment type
      payment Id → customer Id
      payment Id → order number
Order
Relational Schema: Order(order_number_INT (10), invoice_amount DECIMAL(6,2), order_date
DATE, customer Id INT(5))
Primary Key: order number
Foreign Key: customer_Id (NOT NULL)
FD:
      order number → invoice amount
      order number → order date
      order_number → customer_ld
OrderItem
Relational Schema: OrderItem(item Id INT(10), order number INT(10), product Id INT(10),
quantity INT(10), item price DECIMAL(6,2))
Primary Key: item Id, order number, product Id
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item_Id, order_number, product_Id → quantity Item_Id, order_number, product_Id → item_price
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Product

Relational Schema: Product(product_Id INT(10), product_name VARCHAR(200), description

VARCHAR(500), product_price DECIMAL(6,2), category_Id INT(10))

Primary Key: product_ld Foreign Key: category_ld FD:

product_Id → product_name
product_Id → description
product_Id → product_price
product_Id → category_Id

ProductCategory

Relational Schema: ProductCategory(<u>category Id</u> INT(10), category_name VARCHAR(50))

Primary Key: category_Id

Foreign Key: None

FD: category_Id → category_name