

Database Management Systems II

Year 2, Semester 2

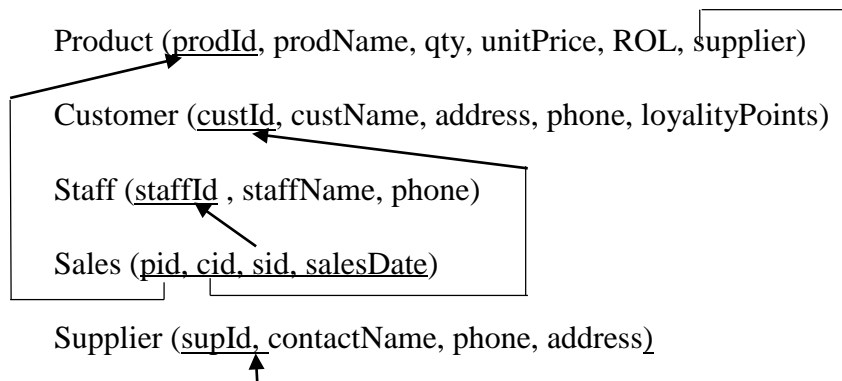
2018



Lab Sheet 03

Question 1

Implement the following relational schema for a super market in SQL Server.



Ensure that,

- quantity of a product is always greater than 0
 - default date for a sale is the system date
- Following data should be inserted to the tables.

Product *Sales*

ProdId	prodName	qty	unitPrice	ROL	Supplier
P0001	Lemon Puff	22	85	20	1
P0201	Knor Soup	8	100	10	2
P0084	Lipton Ceylonta	12	125	15	2
P0222	chocolate fingers	14	50	8	1

pid	cid	sid	salesDate
P0201	C100	S001	13/11/2015
P0222	C101	S002	22/11/2015
P0084	C100	S001	01/12/2015
P0201	C100	S002	08/12/2015

Customer

custId	custName	address	phone	Points
C100	Ravi Perera	Colombo	0112123456	1200
C101	Nimali Alwis	Gampaha	0332212345	275

staffId	name	phone
S001	Kamal Silva	0718123456
S002	Amila Namal	0714222222

Staff

Supplier

supId	contactName	contactName	address	phone
1	Ceylon Biscuits	Amal Ranjith	Ratmalana	0112111111
2	Unilvers	Nadeeka Perera	Borella	0114555666

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Question 2

Implement the Bank schema in question 1 of Lab sheet 2 in SQL Server.

- Ensure that the interest_rate of Savings account is a non-negative number (≥ 0).
- Ensure that the customer's PIN number is a four digit (0-9) number
- Ensure that the customer's NIC number contains 10 digits
- Ensure that the customer's name is not null.
- Ensure that the balance in an account is always non-negative number (≥ 0).
- In the Transaction table, the default value for date&time should be the system datetime.
- In the Transaction table, the value for by attribute must be one of the following: "ATM", "Teller", "Bank", "Standing Order", "Cheque", "On-Line" or "Other".
- The type descriptive attribute of the "has" relationship between Transaction table and Account table should have one of the following values: "credit" or "debit". Insert at least two tuples into each table you created.

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