

IT 214- Database Management Systems
Relations and Functional Dependencies
Group 5K
Database for a Bakery

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Relations and Functional Dependencies

1. customer (customerid, fname, minit, lname)

customerid → fname, minit, lname

2. customer_phone(customerid, contactno.)

3. customer_email(customerid, emailid)

4. member (memberid, customerid, bdate, points)

memberid → bdate, points

customerid → bdate, points

memberid → customerid

customerid → memberid

5. visits (customerid, time, branchid)

customer, time → branchid

6. branch (branchid, location)

branchid → location

7. sales (billno, branchid, customerid, time, amount, delivery, discount, totamt)

billno → branchid, customerid, time, amount, delivery, discount, totamt.

8. sales_details (billno, productid, qty, price, amount)

billno, productid → qty, price, amount

9. discount (minamount, rate)

minamount → rate

10. product (productid, pname, costprice, sellingprice)

productid → pname, sellingprice, costprice

11. recipe (productid, ingredientid, qty)

productid, ingredientid → qty.

12. ingredient(ingredientid, iname, price, qtyavailable, minqty)
ingredientid → iname, price, qtyavailable, minallowedqty.

13. purchases (pbillno, time, amount)
pbillno. → time, amount

14. purchase_details (pbillno, ingredientid, qty, price, amount)
pbillno, ingredientid → qty, price, amount

15. employee (empid, fname, minit, lname, gender, salary, job, branchid)
empid → fname, minit, lname, gender, salary, job, branchid

16. inventory(productid, branchid, qtyavailable)
productid, branchid → qtyavailable

Relational Schema Diagram:

