

NORTHWIND DATABASE – PROGRAMMING ASSIGNMENT

1. WRITE A PROCEDURE WHICH TAKES CATEGORY NAME AS A PARAMETER AND RETURN ALL PRODUCTS WHICH MATCH WITH THE CATEGORY NAME. IF NAME NOT EXIST PRINT MESSAGE
2. TAKE COUNTRY NAME AS THE PARAMETER AND RETURN ALL CUSTOMERS FROM THAT COUNTRY

3. WRITE INSERT, UPDATE AND DELETE PROCEDURE FOR EMPLOYEES TABLE. IF ANY STATEMENT FAIL RAISE PROPER ERROR MESSAGE

PARAMETER :

EMPLOYEEID	LASTNAME	FIRSTNAME	TITLE	TITLEOFCOURTESY	BIRTHDATE	
TE	HIREDATE	ADDRESS	CITY	REGION	POSTALCODE	COUNTRY

4. TAKE REGIONDESCRIPTION AS A PARAMETER
PRINT REGIONDESCRIPTION, TERRITORY DESCRIPTION, AND EMPNAME

5. PRODUCTS TABLE

WRITE A PROCEDURE WHICH CHECKS UNITSINSTOCK AND UNITSONORDER
DISPLAY ALL PRODUCTS DETAILS (PRODUCTNAME, UNITPRICE, UNITSINSTOCK,
UNITSONORDER, DIFFERENCE) where UNITSONORDER is more than UNITSINSTOCK

6. ORDER DETAILS TABLE

TAKE ORDERID AS PARAMETER

FOR THE ORDERID PRINT PRODUCTNAME, UNITPRICE, QUANTITY, DISCOUNT, TOTAL I.E
 $\text{UNITPRICE} * \text{QUANTITY}$, DISCOUNTAMOUNT, FINAL PRICE I.E. $\text{TOTAL} - \text{DISCOUNT AMOUNT}$

7. WRITE A PROCEDURE WHICH INSERT IN PRODUCT TABLE

PARAMETER FOR PROCEDURE PRODUCTNAME, UNITPRICE AND CATEGORYNAME
CHECK IF CATEGORYNAME EXIST THEN ADD PRODUCTS WITH EXISTING CATEGORYID
IF CATEGORYNAME DOES NOT EXIST FIRST INSERT IN CATEGORY TABLE
READ CATEGORYID WHICH IS IDENTITY FIELD
AND INSERT NEW INSERTED ID IN PRODUCT TABLE AS CATEGORYID

8. ORDER TABLE

TAKE YEAR AS PARAMETER TO PROCEDURE

PRINT IN EACH QUARTER HOW MANY ORDERS BOOKED,
EXAMPLE IN Q-1 100

Q-2 150

IF YEAR NOT EXIST PRINT ERROR MESSAGE

9. TABLE ORDERS AND ORDER DETAILS – OUT PARAMETER

TAKE YEAR AND MONTH AS PARAMETER AND RETURN

TOTAL REVENUE GENERATED $\text{SUM}(\text{UNITPRICE} * \text{QTY} - \text{DISCOUNT})$

10. FOR EACH EMPLOYEE PRINT EMPLOYEE FULL NAME, BIRTHDATE, HIREDATE, AGE (IN YEARS) AT THE TIME OF HIRING, RETIREMENT DATE. (60 YEARS)

FUNCTIONS

1. TAKE PRODUCTNAME AS PARAMETER AND RETURN UNITPRICE
2. TAKE PRODUCTNAME AS PARAMETER AND RETURN UNITSINSTOCK AND UNINTSONORDER
3. TAKE POSTALCODE AS PARAMETER AND RETURN CUSTOMER NAME. IF POSTAL CODE IS NOT VALID DISPLAY ERROR MESSAGE
4. TAKE COUNTRY AS PARAMETER AND RETURN CITY AND POSTALCODE FOR A CUSTOMERS
5. TAKE EMPLOYEE FIRSTNAME AND LASTNAME AS PARAMETER AND RETURN ALL CUSTOMERS COMPANY NAME, CONTACTNAME, CONTACTTILE
6. TAKE YEAR AND EMPLOYEE NAME AND DISPLAY AMOUNT OF ORDERS HANDLE BY THE EMPLOYEE IN A YEAR (SUM OF QUANTITY)
7. TAKE YEAR AND MONTH AS PARAMETER AND RETURN NO OF ORDERS SHIPPED IN THE GIVEN MONTH
8. TAKE PRODUCTNAME AS PARAMETER AND RETURN TOTAL UNITS OF ORDER PLACED FOR THE PRODUCT (SUM(ORDERED QUANTITY))
Hint: use Products and [Order Details] table
9. TAKE ORDERID AS PARAMETER AND RETURN TOTAL UNITS OF ORDER PLACE FOR THE ORDERID