Creating the Burger Database

Q1. Create the following tables in the ***burgerYourname*** database:

tblBurger

burgerID	TINYINT NOT NULL AUTOINCREMENT PRIMARY KEY
burgerDesc	VARCHAR(30)
price	DECIMAL(4,2)
noSales	SMALLINT UNSIGNED

tblIngredient

ingID	TINYINT NOT NULL AUTOINCREMENT PRMARY KEY
ingDesc	VARCHAR(20)
cost	DECIMAL(4,2)

tblBurgerIng

burgerID	TINYINT PRIMARY KEY
ingID	TINYINT PRMARY KEY

Q2. Insert the following data:

tblBurger

burgerID	burgerDesc	price	noSales
1	Plain	$2.50	100
2	Egg	$3.00	250
3	Hawaiian	$2.70	200
4	Cheese	$2.90	275

tblBurgerIng

BurgerID	ingID
1	1
1	2
1	3
1	4
2	1
2	2
2	3
2	4
2	5
3	1
3	2
3	3
3	6
4	1
4	2
4	3
4	4
4	7

tblIngredient

ingID	ingDesc	cost
1	Bread	$0.50
2	Meat	$1.00
3	Tomato	$0.20
4	Lettuce	$0.10
5	Egg	$0.50
6	Pineapple	$0.30
7	Cheese	$0.40

Use **SQL queries** for the questions that follow:

Q3. Display all the burgers.
Required output:

burgerID	burgerDesc	price	noSales
1	Plain	2.50	100
2	Egg	3.00	250
3	Hawaiian	2.70	200
4	Cheese	2.90	275

Q4. Display the ingredient descriptions and costs.
Required output:

ingDesc	cost
Bread	0.50
Meat	1.00
Tomato	0.20
Lettuce	0.10
Egg	0.50
Pineapple	0.30
Cheese	0.40

Q5. Display the ingredients costing less than 50c
Required output:

ingDesc	cost
Tomato	0.20
Lettuce	0.10
Pineapple	0.30
Cheese	0.40

Q6. Display details of burgers costing between $2.50 and $3.00
Required output:

burgerID	burgerDesc	price	noSales
3	Hawaiian	2.70	200
4	Cheese	2.90	275

Q7. Display the burger descriptions, price and number of sales in number of sales order
Required output:

burgerDesc	price	noSales
Plain	2.50	100
Hawaiian	2.70	200
Egg	3.00	250
Cheese	2.90	275

Q8. What is the price of the most expensive burger?
Required output:

MAX(price)
3.00

Q9. Display the ingredients for a plain burger.
Required output:

ingDesc
Bread
Meat
Tomato
Lettuce

Q10. Display the ingredients for the burger whose price is 3.00
Required output:

ingDesc
Bread
Meat
Tomato
Lettuce
Egg

Q11. How many different ingredients go into a Hawaiian burger?
Required output:

COUNT(ingID)
4

Q12. Retrieve the descriptions of all the burgers that require tomato.
Required output:

burgerDesc
Plain
Hawaiian
Egg
Cheese

Q13. Change the cost of pineapple to 35c

Q14. Change the number of sales for the plain burger to 125

Q15. Invent your own burger from existing ingredients

a. Enter the description in the burger table

b. Enter the ingredients for this burger in the burgerIng table

c. Total the price for this new burger (use SUM to add the cost for individual ingredients)

d. Update the burger table to reflect this total plus an extra 70c (manually do the calculation)

Q16. Remove the Hawaiian burger from the burger table and remove any references to it in the burgerIng table.