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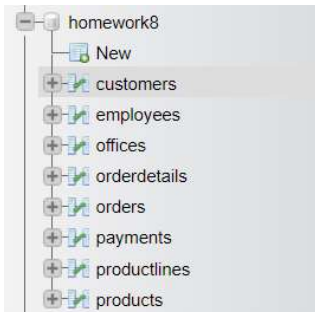
21/472698/PA/20322
IUP CS B – Database Lab

HOMEWORK 8
Procedure

Importing SQL to the database:



1. Write a procedure to increase the price of a specified product category by a given percentage. You will need to create a product table with appropriate data to test your procedure. Alternatively, load the ClassicModels database on your personal machine so you have complete access. You have to change the DELIMITER prior to creating the procedure.

   Creating the procedure:

```
DELIMITER //
CREATE PROCEDURE increaseByPercent(
    IN percent FLOAT(50),
    IN productCategory VARCHAR(100)
)
BEGIN
    UPDATE products
    SET buyPrice = ((buyPrice * percent)/100 + buyPrice)
    WHERE productLine = productCategory;
END //
```

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0059 seconds.)

```
CREATE PROCEDURE increaseByPercent( IN percent FLOAT(50), IN productCategory VARCHAR(100) ) BEGIN UPDATE products SET buyPrice = ((buyPrice * percent)/100 +
buyPrice) WHERE productLine = productCategory; END;
```

[Edit inline] [Edit] [Create PHP code]

Before calling procedure:

←T→	productCode	productName	productLine	productScale	productVendor	productDescription	quantityInStock	buyPrice	MSRP
Edit Copy Delete	S12_1666	1958 Setra Bus	Trucks and Buses	1:12	Welly Diecast Productions	Model features 30 windows, skylights & glare resis...	1579	77.90	136.67
Edit Copy Delete	S12_4473	1957 Chevy Pickup	Trucks and Buses	1:12	Exoto Designs	1:12 scale die-cast about 20" long Hood opens, Rub...	6125	55.70	118.50
Edit Copy Delete	S18_1097	1940 Ford Pickup Truck	Trucks and Buses	1:18	Studio M Art Models	This model features soft rubber tires, working ste...	2613	58.33	116.67
Edit Copy Delete	S18_2319	1964 Mercedes Tour Bus	Trucks and Buses	1:18	Unimax Art Galleries	Exact replica. 100+ parts. working steering system...	8258	74.86	122.73
Edit Copy Delete	S18_2432	1926 Ford Fire Engine	Trucks and Buses	1:18	Carousel DieCast Legends	Gleaming red handsome appearance. Everything is he...	2018	24.92	60.77
Edit Copy Delete	S18_4600	1940s Ford truck	Trucks and Buses	1:18	Motor City Art Classics	This 1940s Ford Pick-Up truck is re-created in 1:1...	3128	84.76	121.08
Edit Copy Delete	S24_2300	1962 Volkswagen Microbus	Trucks and Buses	1:24	Autoart Studio Design	This 1:18 scale die cast replica of the 1962 Micro...	2327	61.34	127.79
Edit Copy Delete	S32_1268	1980's GM Manhattan Express	Trucks and Buses	1:32	Motor City Art Classics	This 1980's era new look Manhattan express is stil...	5099	53.93	96.31
Edit Copy Delete	S32_2509	1954 Greyhound Scenicruiser	Trucks and Buses	1:32	Classic Metal Creations	Model features bi-level seating, 50 windows, skyli...	2874	25.98	54.11
Edit Copy Delete	S32_3522	1996 Peterbilt 379 Stake Bed with Outrigger	Trucks and Buses	1:32	Red Start Diecast	This model features, opening doors, detailed engin...	814	33.61	64.64
Edit Copy Delete	S50_1392	Diamond T620 Semi-Skirted Tanker	Trucks and Buses	1:50	Highway 66 Mini Classics	This limited edition model is licensed and perfect...	1016	68.29	115.75

After calling the procedure:

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0112 seconds.)

```
CALL increaseByPercent(10, "Trucks and Buses");
```

[Edit inline] [Edit] [Create PHP code]

←T→	productCode	productName	productLine	productScale	productVendor	productDescription	quantityInStock	buyPrice	MSRP
Edit Copy Delete	S12_1666	1958 Setra Bus	Trucks and Buses	1:12	Welly Diecast Productions	Model features 30 windows, skylights & glare resis...	1579	85.69	136.67
Edit Copy Delete	S12_4473	1957 Chevy Pickup	Trucks and Buses	1:12	Exoto Designs	1:12 scale die-cast about 20" long Hood opens, Rub...	6125	61.27	118.50
Edit Copy Delete	S18_1097	1940 Ford Pickup Truck	Trucks and Buses	1:18	Studio M Art Models	This model features soft rubber tires, working ste...	2613	64.16	116.67
Edit Copy Delete	S18_2319	1964 Mercedes Tour Bus	Trucks and Buses	1:18	Unimax Art Galleries	Exact replica. 100+ parts. working steering system...	8259	82.35	122.73
Edit Copy Delete	S18_2432	1926 Ford Fire Engine	Trucks and Buses	1:18	Carousel DieCast Legends	Gleaming red handsome appearance. Everything is he...	2018	27.41	60.77
Edit Copy Delete	S18_4600	1940s Ford truck	Trucks and Buses	1:18	Motor City Art Classics	This 1940s Ford Pick-Up truck is re-created in 1:1...	3128	93.24	121.08
Edit Copy Delete	S24_2300	1962 Volkswagen Microbus	Trucks and Buses	1:24	Autoart Studio Design	This 1:18 scale die cast replica of the 1962 Micro...	2323	67.47	127.79
Edit Copy Delete	S32_1268	1980's GM Manhattan Express	Trucks and Buses	1:32	Motor City Art Classics	This 1980's era new look Manhattan express is stil...	5099	59.32	96.31
Edit Copy Delete	S32_2509	1954 Greyhound Scenicruiser	Trucks and Buses	1:32	Classic Metal Creations	Model features bi-level seating, 50 windows, skyli...	2874	28.58	54.11
Edit Copy Delete	S32_3522	1996 Peterbilt 379 Stake Bed with Outrigger	Trucks and Buses	1:32	Red Start Diecast	This model features, opening doors, detailed engin...	814	36.97	64.64
Edit Copy Delete	S50_1392	Diamond T620 Semi-Skirted Tanker	Trucks and Buses	1:50	Highway 66 Mini Classics	This limited edition model is licensed and perfect...	1016	75.12	115.75

Notice that the buyPrice had increased by 10% for the truck and buses category from the previous price after calling the procedure *increaseByPercent(10, "Truck and Buses");*

2. Write a procedure to report the amount ordered in a specific month and year for customers containing a specified character string in their name.

   Creating the procedure:

```
DELIMITER //
CREATE PROCEDURE reportAmount(
    IN monthData INT(50),
    IN yearData INT(50),
    IN nameCustomer VARCHAR(100)
    )
BEGIN
    SELECT amount, customerName, orderdate
    FROM customers
    INNER JOIN payments
    ON customers.customerNumber = payments.customerNumber
    INNER JOIN orders
    ON orders.customerNumber = payments.customerNumber
    WHERE
        YEAR(orderDate) = yearData AND
        MONTH(orderDate) = monthData AND
        customerName = nameCustomer;
END //
```

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0100 seconds.)

```
CREATE PROCEDURE reportAmount( IN monthData INT(50), IN yearData INT(50), IN nameCustomer VARCHAR(100) )
BEGIN SELECT amount, customerName, orderdate FROM customers INNER JOIN payments ON customers.customerNumber
= payments.customerNumber INNER JOIN orders ON orders.customerNumber = payments.customerNumber WHERE
YEAR(orderDate) = yearData AND MONTH(orderDate) = monthData AND customerName = nameCustomer; END;
```

[Edit inline] [Edit] [Create PHP code]

After calling procedure:

```
CALL reportAmount(03, 2005, "Mini Gifts Distributors Ltd.");
```

amount	customerName	orderdate
101244.59	Mini Gifts Distributors Ltd.	2005-03-04
101244.59	Mini Gifts Distributors Ltd.	2005-03-23
85410.87	Mini Gifts Distributors Ltd.	2005-03-04
85410.87	Mini Gifts Distributors Ltd.	2005-03-23
11044.30	Mini Gifts Distributors Ltd.	2005-03-04
11044.30	Mini Gifts Distributors Ltd.	2005-03-23
83598.04	Mini Gifts Distributors Ltd.	2005-03-04
83598.04	Mini Gifts Distributors Ltd.	2005-03-23
47142.70	Mini Gifts Distributors Ltd.	2005-03-04
47142.70	Mini Gifts Distributors Ltd.	2005-03-23
55639.66	Mini Gifts Distributors Ltd.	2005-03-04
55639.66	Mini Gifts Distributors Ltd.	2005-03-23
111654.40	Mini Gifts Distributors Ltd.	2005-03-04
111654.40	Mini Gifts Distributors Ltd.	2005-03-23
43369.30	Mini Gifts Distributors Ltd.	2005-03-04
43369.30	Mini Gifts Distributors Ltd.	2005-03-23
45084.38	Mini Gifts Distributors Ltd.	2005-03-04
45084.38	Mini Gifts Distributors Ltd.	2005-03-23

3. Write a procedure to change the credit limit of all customers in a specified country by a specified percentage.

```
DELIMITER //
CREATE PROCEDURE changeCreditLimitByCountry(
    IN countryName VARCHAR(100),
    IN percent INT(50)
   )
BEGIN
    UPDATE customers
    SET creditLimit = ((creditLimit*percent)/100 + creditLimit)
    WHERE country = countryName;
END //
```

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0089 seconds.)

```
CREATE PROCEDURE changeCreditLimitByCountry( IN countryName VARCHAR(100), IN percent INT(50) ) BEGIN UPDATE
customers SET creditLimit = ((creditLimit*percent)/100 + creditLimit) WHERE country = countryName; END;
```

[Edit inline] [Edit] [Create PHP code]

Before calling procedure:

←T→	customerNumber	customerName	country	creditLimit
Edit Copy Delete	148	Dragon Souveniers, Ltd.	Singapore	103800.00
Edit Copy Delete	166	Handji Gifts& Co	Singapore	97900.00
Edit Copy Delete	206	Asian Shopping Network, Co	Singapore	0.00

After calling procedure:

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0048 seconds.)

```
CALL changeCreditLimitByCountry("Singapore", 5);
```

←T→	customerNumber	customerName	country	creditLimit
Edit Copy Delete	148	Dragon Souveniers, Ltd.	Singapore	108990.00
Edit Copy Delete	166	Handji Gifts& Co	Singapore	102795.00
Edit Copy Delete	206	Asian Shopping Network, Co	Singapore	0.00