

STORED PROCEDURES EXAMPLES

```
-- CREATE PROCEDURE FOR UPDATING SALARY USING CASE STATMENT. IF SALARY>200000 THEN +100000, ELSE +200000
CREATE PROCEDURE UPDATING_SAL AS
BEGIN
    UPDATE employees SET SALARY=
        (CASE
            WHEN SALARY >200000 THEN SALARY+100000
            WHEN SALARY<=200000 THEN SALARY+200000
            END)
END
EXECUTE UPDATING_SAL
SELECT * FROM employees
```

	employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	department_id
1	100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	295000	10
2	101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-09-21	AD_VP	340000	10
3	102	Lex	De Haan	LDEEHAN	515.123.4569	1993-01-13	AD_VP	237000	10
4	103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	229000	60
5	104	Bruce	Ernst	BERNST	590.423.4568	1991-05-21	IT_PROG	226000	60
6	107	Diana	Lorentz	DLORENTZ	590.423.5567	1999-02-07	IT_PROG	204200	60

Procedure that shows customer by id of product (INPUT PARAMETER)

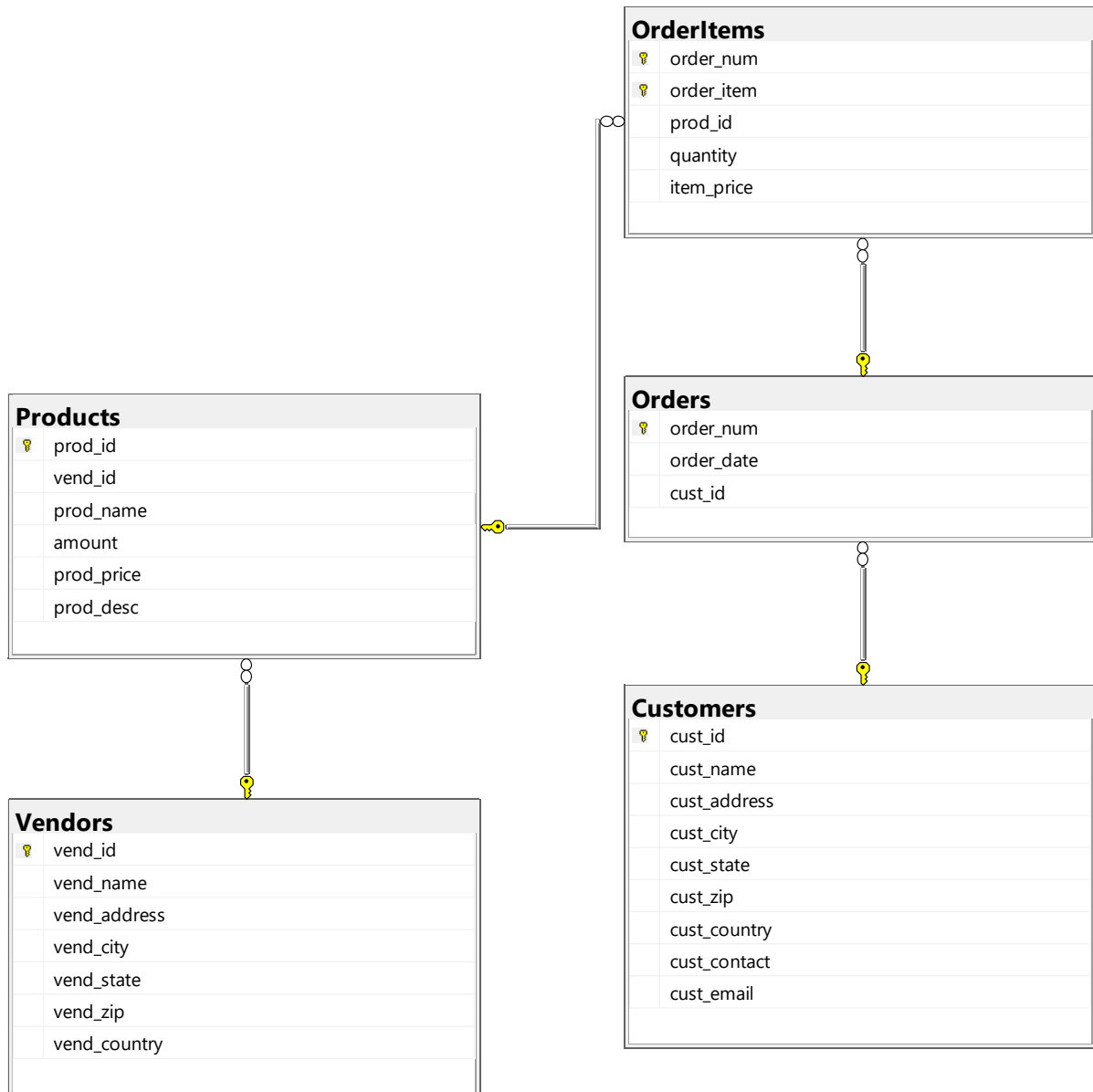
```
CREATE PROCEDURE FIND_CUSTOMER
@PROD_ID VARCHAR(30)

AS
BEGIN
SELECT C.CUST_NAME FROM CUSTOMERS AS C JOIN ORDERS AS O ON C.CUST_ID=O.CUST_ID JOIN
ORDERITEMS AS R ON O.ORDER_NUM=R.ORDER_NUM WHERE R.PROD_ID=@PROD_ID
END

EXEC FIND_CUSTOMER @PROD_ID='BNBG01';
```

	CUST_NAME
1	Fun4All
2	The Toy Store
3	Village Toys

MARKET DATABASE



3 POINTS:

1. Create a stored procedure to show each vendor's products, separated by commas. (u can use **STRING_AGG** and **TRIM** functions)

	vend_id	vend_name	vend_country	products
1	BRE02	Bear Emporium	USA	NULL
2	BRS01	Bears R Us	USA	8 inch teddy bear, 12 inch teddy bear, 18 inch teddy bear
3	DLL01	Doll House Inc.	USA	Fish bean bag toy, Bird bean bag toy, Rabbit bean bag toy, Raggedy Ann
4	FNG01	Fun and Games	England	King doll, Queen doll
5	FRB01	Furball Inc.	USA	NULL
6	JTS01	Jouets et ours	France	NULL

2. Create a procedure that updates emails for null values in Customers table. It has to be started from 'kztoys', @nameofcustomer without spaces. (u can use **CONCAT**, **LOWER** and **REPLACE** functions)

	cust_id	cust_name	cust_address	cust_city	cust_state	cust_zip	cust_country	cust_contact	cust_email
1	1000000001	Village Toys	200 Maple Lane	Detroit	MI	44444	USA	John Smith	mailto:sales@villagetoys.com
2	1000000002	Kids Place	333 South Lake Drive	Columbus	OH	43333	USA	Michelle Green	kztoys@kidsplace.com
3	1000000003	Fun4All	1 Sunny Place	Muncie	IN	42222	USA	Jim Jones	<mailto:jjones@fun4all.com
4	1000000004	Fun4All	829 Riverside Drive	Phoenix	AZ	88888	USA	Denise L. Stephens	<mailto:dstephens@fun4all.com
5	1000000005	The Toy Store	4545 53rd Street	Chicago	IL	54545	USA	Kim Howard	kztoys@thetoystore.com

3. Create a stored procedure that shows the customers and regularities of their visits to the market. The customer is said to be 'REGULAR CUSTOMER' if he/she bought at least 2 things, otherwise 'SELDOM CUSTOMER'. Show all the info with this description. (u can use CASE statement)

	cust_id	cust_name	cust_address	cust_city	cust_email	amount_orders	customer_description
1	1000000001	Village Toys	200 Maple Lane	Detroit	mailto:sales@villagetoy.com	2	regular customer
2	1000000003	Fun4All	1 Sunny Place	Muncie	<mailto:jjones@fun4all.com	1	seldom customer
3	1000000004	Fun4All	829 Riverside Drive	Phoenix	<mailto:dstephens@fun4all.com	1	seldom customer
4	1000000005	The Toy Store	4545 53rd Street	Chicago	kztoys.@thetoystore.com	1	seldom customer

4. Create a stored procedure that shows all the id, name, country as well as description of all the vendors. The description must indicate whether or not the length of the country Odd or Even.

	vend_id	vend_name	vend_country	vend_country_description
1	BRE02	Bear Emporium	USA	odd
2	BRS01	Bears R Us	USA	odd
3	DLL01	Doll House Inc.	USA	odd
4	FNG01	Fun and Games	England	odd
5	FRB01	Furball Inc.	USA	odd
6	JTS01	Jouets et ours	France	even

5. Create a stored procedure to display full cost for product by input id.

EXECUTE PROC_5 @PROD_ID = 'BR01', @ORDER_NUM = 20006;
110 %
Сообщения
FULL COST 119.8

6. Create a stored procedure that gives a message 'There are some vendors with unknown locations' if exists unknown locations in vendors table. Otherwise it should show 'Information about location is filled'.

EXEC [MESSAGE];
132 %
Сообщения
There are some vendors with unknown locations

7. Create a stored procedure that shows is there vendor in the state where customer lives.

	CUST_NAME	VEND
1	Village Toys	YES
2	Kids Place	YES
3	Fun4All	NO
4	Fun4All	NO
5	The Toy Store	NO

8. Create a stored procedure that shows all the products whose price is located between average price and second higher average price of the products. The second higher average price is located exactly in the middle of the mean value and max value price of the products.

Результаты		Сообщения				
	prod_id	vend_id	prod_name	amount	prod_price	prod_desc
1	BR02	BRS01	12 inch teddy bear	18	8.99	12 inch teddy bear, comes with cap and jacket
2	RYL01	FNG01	King doll	120	9.49	12 inch king doll with royal garments and crown
3	RYL02	FNG01	Queen doll	18	9.49	12 inch queen doll with royal garments and crown

9. Create a stored procedure that shows customer ids, number of items that they bought, total amount of money that they paid, and to one column write if it is max amount of money – 'maximum', if second maximum write 'second maximum' and otherwise write 'usual'.

Результаты		Сообщения		
	CUST_ID	NUM_ITEMS	MONEY	DER
1	1000000001	5	3515.50	MAXIMUM
2	1000000003	3	329.60	USUAL
3	1000000004	5	1696.00	SECOND_MAX
4	1000000005	5	189.60	USUAL

10. Your procedure.