```
--1
/*Create a stored procedure to show each vendor's products, separated by commas. (u can
use
STRING_AGG and TRIM functions)*/
--used functions above to show vendors products
create procedure vendor_product as
begin
select v.vend_id, v.vend_name, v.vend_country, p.prod_name from Vendors v full join
(select vend_id, STRING_AGG(TRIM(prod_name),',') as prod_name from Products group by
vend_id) p on v.vend_id = p.vend_id
end
exec vendor_product
drop procedure vendor_product
```

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

```
/*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)*/go
```

⊞ Results												
		cust_id	cust_name	cust_address	cust_email	counts	description					
	1	1000000001	Village Toys	200 Maple Lane	mailto:sales@villagetoys.com	2	regular customer					
	2	1000000003	Fun4All	1 Sunny Place	<mailto:jjones@fun4all.com< td=""><td>1</td><td>seldom customer</td></mailto:jjones@fun4all.com<>	1	seldom customer					
	3	1000000004	Fun4All	829 Riverside Drive	<mailto:dstephens@fun4all.com< td=""><td>1</td><td>seldom customer</td></mailto:dstephens@fun4all.com<>	1	seldom customer					
	4	1000000005	The Toy Store	4545 53rd Street	kztoys@thetoystore.com	1	seldom customer					

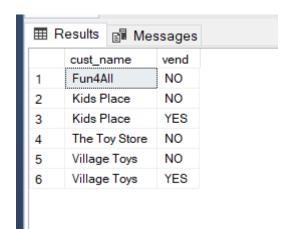
vend id vend name vend country vend description BRE02 Bear Emporium USA odd 1 BRS01 Bears R Us USA 2 odd 3 DLL01 Doll House Inc. USA odd FNG01 Fun and Games odd 4 England 5 FRB01 Furball Inc. USA odd 6 JTS01 Jouets et ours France even

```
--5
/*Create a stored procedure to display full cost for product by input id.*/
go
create procedure full_cost @prod_id varchar(50), @order_num int as
begin
declare @output varchar(50)
set @output = concat('Full cost is ',(SELECT CONVERT(varchar,item_price*quantity) from
OrderItems where prod_id=@prod_id AND order_num=@order_num))
print @output
end
```

```
exec full_cost @prod_id='BR01', @order_num=20006;
drop procedure full cost
 Messages
    Full cost is 119.80
    Completion time: 2022-04-29T01:27:13.4802393+06:00
--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'.*/
-- checking is there nulls in vind city
create procedure messagee as
begin
declare @output varchar(50)
set @output = (case when (select count(*) from Vendors where vend_city is null) > 0 then
'There are some vendors with unknown locations' else 'Information about location is
filled' end)
print @output
end
exec messagee
drop procedure messagee

    Messages

   Information about location is filled
   Completion time: 2022-04-29T01:27:40.8076443+06:00
--7
/*Create a stored procedure that shows is there vendor in the state where customer
lives.*/
-- cheking are hte from smae state?
create procedure about_city as
begin
/*create view tmp as
select c.cust_name, c.cust_state, v.vend_state from
Customers c, Orders o, OrderItems oi, Products p, Vendors v
where c.cust_id = o.cust_id and o.order_num = oi.order_num and oi.prod_id = p.prod_id and
p.vend_id = v.vend_id*/
select distinct(c.cust_name), (case when c.cust_state = v.vend_state then 'YES' else 'NO'
end) as vend from Customers c, Vendors v
end
exec about city
drop procedure about_city
```



```
--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.*/
create procedure avg price as
begin
declare @avg1 int
set @avg1 = (select avg(prod_price) from Products)
declare @max int
set @max = (select max(prod price) from Products)
declare @avg2 int
set @avg2 = (select avg(prod price) from Products where prod price between @avg1 and
select * from Products where prod price between @avg1 and @avg2
end
exec avg price
drop procedure avg price
```

```
Results Messages

prod_id vend_id prod_name amount prod_price prod_desc

BR02 BRS01 12 inch teddy bear 18 8.99 12 inch teddy bear, comes with cap and jacket
```

```
/*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'.*/
-- finding all boughts of each customer (here i couldnt find max and second max) (it works if take off last column which should find is it max or not)
go
create procedure customers_data as
begin
declare @max int
declare @s_max int
set @max = (select max(MON) from (select sum(oi.item_price*oi.quantity) as MON from
Customers c, Orders o, OrderItems oi where c.cust_id=o.cust_id and
o.order_num=oi.order_num group by c.cust_id) a)
```

```
set @s_max = (select max(MON) from (select sum(oi.item_price*oi.quantity) as MON from
Customers c, Orders o, OrderItems oi where c.cust_id=o.cust_id and
o.order_num=oi.order_num group by c.cust_id) a where MON != @max)
select c.cust_id, count(*) as num_items, sum(oi.item_price*oi.quantity) as MON, case when
MON = @max then 'maximum' when MON = @s_max then 'second_max' else 'usual' end as status
from Customers c, Orders o, OrderItems oi where c.cust_id=o.cust_id and
o.order_num=oi.order_num group by c.cust_id
end
```

exec customers_data

1 1000000001 5 35	515.50 usual
	15.50 usuai
2 1000000003 3 32	29.60 usual
3 1000000004 5 16	696.00 usual
4 1000000005 5 18	39.60 usual

--10

```
-- here i am finding all products and prderitems of defined vendor
go
create procedure vendors_products as
begin
select * from
OrderItems oi, Products p, Vendors v
where oi.prod_id = p.prod_id and p.vend_id = v.vend_id and v.vend_id = 'DLL01'
end
```

exec vendors_products

_	ter"																	
	order_num	order_item	prod_id	quantity	item_price	prod_id	vend_id	prod_name	amount	prod_price	prod_desc	vend_id	vend_name	vend_address	vend_city	vend_state	vend_zip	vend
1	20007	2	BNBG01	100	2.99	BNBG01	DLL01	Fish bean bag toy	50	3.49	Fish bean bag toy, complete with bean bag worms	DLL01	Doll House Inc.	555 High Street	Dollsville	CA	99999	USA
2	20007	3	BNBG02	100	2.99	BNBG02	DLL01	Bird bean bag toy	200	3.49	Bird bean bag toy, eggs are not included	DLL01	Doll House Inc.	555 High Street	Dollsville	CA	99999	USA
3	20007	4	BNBG03	100	2.99	BNBG03	DLL01	Rabbit bean bag toy	140	3.49	Rabbit bean bag toy, comes with bean bag carrots	DLL01	Doll House Inc.	555 High Street	Dollsville	CA	99999	USA
4	20007	5	RGAN01	50	4.49	RGAN01	DLL01	Raggedy Ann	45	4.99	18 inch Raggedy Ann doll	DLL01	Doll House Inc.	555 High Street	Dollsville	CA	99999	USA
5	20008	1	RGAN01	5	4.99	RGAN01	DLL01	Raggedy Ann	45	4.99	18 inch Raggedy Ann doll	DLL01	Doll House Inc.	555 High Street	Dollsville	CA	99999	USA
6	20008	3	BNBG01	10	3.49	BNBG01	DLL01	Fish bean bag toy	50	3.49	Fish bean bag toy, complete with bean bag worms	DLL01	Doll House Inc.	555 High Street	Dollsville	CA	99999	USA
7	20008	4	BNBG02	10	3.49	BNBG02	DLL01	Bird bean bag toy	200	3.49	Bird bean bag toy, eggs are not included	DLL01	Doll House Inc.	555 High Street	Dollsville	CA	99999	USA
8	20008	5	BNBG03	10	3.49	BNBG03	DLL01	Rabbit bean bag toy	140	3.49	Rabbit bean bag toy, comes with bean bag carrots	DLL01	Doll House Inc.	555 High Street	Dollsville	CA	99999	USA
9	20009	1	BNBG01	250	2.49	BNBG01	DLL01	Fish bean bag toy	50	3.49	Fish bean bag toy, complete with bean bag worms	DLL01	Doll House Inc.	555 High Street	Dollsville	CA	99999	USA
10	20009	2	BNBG02	250	2.49	BNBG02	DLL01	Bird bean bag toy	200	3.49	Bird bean bag toy, eggs are not included	DLL01	Doll House Inc.	555 High Street	Dollsville	CA	99999	USA
11	20009	3	BNBG03	250	2.49	BNBG03	DLL01	Rabbit bean bag toy	140	3.49	Rabbit bean bag toy, comes with bean bag carrots	DLL01	Doll House Inc.	555 High Street	Dollsville	CA	99999	USA