3	selec	t disti	nct cu	stom	ers.ci	ty, cu	ıst	tomers.name	
4	from	custom	ers						
5	Where	e custo	mers.c	ity	in (
6					Sele	ct Pro	odı	ucts.city	
7					Fro	m Prod	duc	cts	
8					g	roup h	οу	Products.city	
9					0	rder b	οу	<pre>count(Products.city)</pre>	desc
10						Limit	2		
11);				
Data	Output	Explain	Messa	iges	History	,			
	city text	nam text							
	Dallas	Allie	d						
	Dallas	Tyrel	I						

14 select products.name 15 From products	
15 From products	
·	
Where products.priceUSD > (select avg(priceUSD) from products)	
order by products.name desc;	
18	
Data Output Explain Messages History	
name text	
trapper	
eraser	
Oragor .	

20	3. Di	splay the	customer na	ame, pid or	dered,	and the	total	for all	orders,	sorted	by total	from	low	to	high.
21	select C	ustomers.n	name, Orders	s.pid, Orde	ers.tot	alUSD									
22	From Cu	stomers													
23	Inner	Join Order	:5												
24	On Cus	tomers.cid	l = Orders.	cid											
25	Order	by totalUS	SD Asc;												
26															
Dat	a Output Ex	nlain Moss	ages History												
	'														
	name text	pid character	totalusd numeric												
	Tiptop	p02	180												
	ACME	p01	400												
	Tiptop	p05	450												
	Tiptop	p01	450												
	ACME	p01	460												
	ACME	p01	500												
	Tiptop	p04	540												
	Tiptop	p03	540												
	ACME	p07	600												
	Tiptop	p06	720												
	Tiptop	p07	720												
	Tyrell	p03	744												
	Tyrell	p03	880												
	Allied	p05	1104												

27	4. Di	splay all	customer names (in alphabetical order) and their total ordered, and nothing more. Use coalesce to avoid showing NULLs.
28	Select C	ustomers.n	name, sum(Coalesce(Orders.totalUSD,0))
29	From Cu	stomers	
30	Left 0	uter Join	Orders
31	On Cu	stomers.ci	d = orders.cid
32	Group	By custome	rs.name
33	order	by Custome	ers.name asc;
34			
Data	a Output Ex	plain Messa	ages History
		sum .	
	text	numeric	
	ACME	1960	
	Allied	1104	
	Tiptop	3600	
	Tyrell	1624	
	Weyland	0	

36	5. Di	splay the	names of all customers who bought products from agents based in Newark along with the names of the
37	produ	cts they o	dered, and the names of the agents who sold it to them.
38	select c	ustomers.n	ame, Products.name, Agents.name
39	From cu	stomers	
40	Inner	Join Order	3
41	On cu	stomers.ci	d = Orders.cid
42	Inner	Join Produ	ets
43	On Pr	oducts.pid	= Orders.pid
44	Inner	Join Agent	
45	On Ag	ents.aid =	Orders.aid
46	where	agents.ci	<pre>ty = 'Newark';</pre>
47			
Data	Output Ex	plain Messa	ges History
	name text	name text	name text
	Tiptop	brush	Jones

49	6. Wr	ite a quer	y to check	the accur	acy of the	totalUSD	column in	the Orders	table. This	means calcu	lating Ord	ders.totalU	SD from dat	ca in other
50	table	s and comp	aring thos	e values t	o the valu	es in Orde	rs. totalU	SD. Display	/ all rows in	n Orders wher	e Orders.	totalUSD is	/ incorrect,	, if any.
51	Select o	rders.*, (products.p	riceUSD *	Orders.qty) - (produ	cts.priceU	SD * orders	.qty * cust/	omers.discoun	t * 0.01)	as newtota	ı	
52	from ord	ders												
53	Inner	Join Custon	mers											
54	on Or	ders.cid =	- Customers	.cid										
55	Inner	join Produ	cts											
56	on or	<pre>ders.pid =</pre>	products.	pid										
57	wher	e (product	s.priceUSD	* Orders.	qty) - (pr	oducts.pri	ceUSD * or	ders.qty *	customers.d/	iscount * 0.0	1) <> orde	ers.totalUS	D;	
58	I	wish I co	uld just d	o where ne	ewtotal <> o	orders.tot	alUSD;							,
59														'
Data	Output Exp	plain Mess	ages History	,										
	ordnumb	month	cid	aid	pid	qty	totalusd	newtotal						
	integer	character	character	character	character	integer	numeric	numeric						
	1021	Feb	c004	a06	p01	1000	460	457.5						
	1026	May	c002	a05	p03	800	744	704						

67		Examp	le of a Ri	ght 0	uter	Join	
68		Select A	gents.name	, cus	tomer	s.na	me
69		from ag	ents				
70		Right	Outer Join	Cust	omers	3	
71		on ag	ents.city	= cus	tomer	s.ci	ty;
72							
73		Examp	le of a Le	ft Ou	iter 3	Join	
74		Select A	gents.name	, cus	tomer	s.na	me
75		from ag	ents				
76		Left 0	uter Join	Custo	mers		
77		on ag	ents.city	= cus	tomer	s.ci	ty;
Data	a C	Output Ex	plain Messa	ages	Histor	у	
Data	n	Output Ex ame ext	plain Messa name text	ages	Histor	У	
	n te	ame	name	ages	History	у	
	n te	ame ext	name text	ages	History	у	
	0	ame ext Itasi	name text ACME	ages	History	у	
	o o s	ame ext etasi	name text ACME Tiptop	ages	Histor	у	
	o o s	ame ext etasi etasi mith	name text ACME Tiptop Allied	ages	Histor	у	
	o o s	ame ext etasi etasi mith	name text ACME Tiptop Allied Tyrell	ages	Histor	у	

67		Ex	amp	le of	a Ri	.ght	Outer	r Jo:	in		
68		Selec	t A	gents	.name	, cu	stome	ers.	name		
69		from	ag	ents							
70		Rig	ht	Outer	Join	Cus	tome	rs			
71		on	ag	ents.	city	= cu	stome	ers.	city	;	
72											
73		Ex	amp	le of	a Le	ft 0	uter	Join	n		
74		Selec	t A	gents	.name	, cu	stome	ers.	name		
75		from	ag	ents							
76				uter							
77		on	ag	ents.	city	= cu	stome	ers.	city	;	
Data	a C	Dutput	Εv	plain	Macco	2000	Hiete				
		Julput		prom	Mess	ayes	HISTO	ory			
		iame ext		name text		ages	Tilsto	лу			
	t	ame		name		ages	Tilsto	лу			
	s	ame ext		name		ages	Tilsto	Dry			
	S	ame ext mith		name		ages	Tilsto	ory			
	S Jo	ame ext mith		name		ages	Tilsto	ory			
	S Jo P	ext mith ones		name		ages	Tilsto	ыу			
	S Jo	aame ext mith ones erry		name text		ages	Tilsto	ыу			
	S Jo	ame ext mith ones erry irey		name text		ages	Tilsto	ory			
	S Jo	ame ext mith ones erry Grey Otasi		name text ACME		ages	Tilsto	ory			
	S Jo	ame ext mith ones erry Grey Otasi		name text ACME Tiptop Allied		ages -	Tilsto	ory			