1		1.G	et	the	cities	of	agents	booking	an	order	for	a	customer	whose	$\operatorname{cid}$	is	'c006'	
2		Select	ci	ty														
3		From A	gen	ts														
4	1	Where	Exi	sts	(Selec	t *												
5					From	ord	ers											
6					Where	ci	d = 'c0	06'										
7					);													
Data	ο	utput [	Expl	ain	Message	es	History											
	cit te:																	
	Ne	w York																
	Ne	wark																
	Tol	kyo																
	Ne	w York																
	Du	luth																
	Da	llas																
	Lo	ndon																

9	2.Get	2.Get the distinct ids of products ordered through any agent who takes at least one									
10	order	order from a customer in Kyoto, sorted by pid from highest to lowest. (This is not the									
11	same	same as asking for ids of products ordered by customers in Kyoto.)									
12	Select o	Select distinct *									
13	from Pro	from Products									
14		Where Exists (Select aid									
15		From Orders									
16		Where Exists (Select *									
17		From Customers									
18		Where city = 'Kyoto'									
19				)							
20		)									
21	Order By pid DESC;										
		_									
			T. C.								
Data			sages Histor	У							
Data	a Output Ex	plain Mess	city	quantity	priceusd						
	a Output Ex	plain Mess		<del></del>	priceusd numeric						
	a Output Ex	plain Mess	city	quantity							
	a Output Ex pid character	name text	city text	quantity integer	numeric						
	pid character	name text eraser	city text Newark	quantity integer 200600	numeric 1.25						
	pid character p08 p07	name text eraser case	city text Newark Newark	quantity integer 200600 100500	numeric 1.25 1						
	pid character p08 p07 p06	name text eraser case trapper	city text Newark Newark Dallas	quantity integer 200600 100500 123100	1.25 1 2						
	pid character p08 p07 p06 p05	name text eraser case trapper pencil	city text Newark Newark Dallas	quantity integer 200600 100500 123100 221400	1.25 1 2 1						
	pid character p08 p07 p06 p05	name text eraser case trapper pencil	city text Newark Newark Dallas Dallas	quantity integer 200600 100500 123100 221400 125300	1.25 1 2 1 1						

23	3. Ge	et the ids	and names o	f customers	who did	not place	an order	through	agent	a01.
24	Select :	Select name, cid								
25	From Cus	From Customers								
26	Where Ex	Where Exists (Select *								
27		From Orders								
28		Where aid <> 'a01'								
29		);								
Data	Output Ex	plain Messa	ages History							
	name text	cid character								
	Tiptop	c001								
	Tyrell	c002								
	Allied	c003								
	ACME	c004								
	Weyland	c005								
	ACME	c006								

```
32
     Select cid
33
     From Orders
34
     Where pid = (Select pid
35
                  From Products
36
                  Where Name = 'comb' OR Name = 'case'
37
                  ); -- Couldn't Figure this one out
Data Output Explain Messages History
ERROR: more than one row returned by a subquery used as an expression
******** Error *******
```

ERROR: more than one row returned by a subquery used as an expression

-- 4. Get the ids of customers who ordered both product p01 and p07.

31

SQL state: 21000

39	5. Ge	et the ids of products not ordered by any customers who placed any order through agent a08 in pid order from highest to lowest.						
40	select p	pid						
41	From Pro	oducts						
42	Where NO	OT Exists ( Select cid						
43		From Orders						
44		Where Exists ( Select aid						
45		From Orders						
46		Where aid = ( Select aid						
47		From Agents						
48		Where name = 'Bond'						
49								
50								
51		)						
52	Order By	y pid Desc;						
D-1	0.1-1. 5	volein Macagana History						
		xplain Messages History						
	pid	xplain Messages History						
		xplain Messages History						
	pid	xplain Messages History						
	pid character	xplain Messages History						
	pid character p08 p07	xplain Messages History						
	pid character p08 p07 p06	xplain Messages History						
	pid character p08 p07 p06 p05	xplain Messages History						
	pid character p08 p07 p06 p05 p04	xplain Messages History						
	pid character p08 p07 p06 p05	xplain Messages History						
	pid character p08 p07 p06 p05 p04	xplain Messages History						

54	6. Ge	6. Get the name, discount, and city for all customers who place orders through agents in Tokyo or New York.							
55	select n	select name, discount, city							
56	From Customers								
57	Where Ex	Where Exists ( Select *							
58		From Orders							
59		Where Exists (Select aid							
60		From Agents							
61	Where city = 'New York' OR city = 'Tokyo'								
62				)					
63		);							
Data	a Output Ex	plain Mess	ages History	,					
	name text	discount numeric	city text						
	Tiptop		Duluth						
	Tyrell	12	Dallas						
	Allied	8	Dallas						
	Allied ACME		Dallas Duluth						
		8.5							
	ACME	8.5	Duluth						

```
-- 7. Get all customers who have the same discount as that of any customers in Duluth or London
66
     select *
67
     From Customers
68
     Where discount = (Select discount
69
                       From Customers
70
                       Where city = 'Duluth' or city = 'London'
                       ); -- Unsure of how to handle
Data Output Explain Messages History
ERROR: more than one row returned by a subguery used as an expression
******** Error *******
ERROR: more than one row returned by a subquery used as an expression
SOL state: 21000
```

```
-- 8. Tell me about check constraints: What are they? What are they good for? What's the
    -- advantage of putting that sort of thing inside the database? Make up some examples
    -- of good uses of check constraints and some examples of bad uses of check constraints.
76
    -- Explain the differences in your examples and arque your case
    -- Check Constraints are good for ensuring that data value is within a certain range; The data is checked and either True or False is Returned
79
    -- If you want to guarantee that the data is less than, greater than a certain value, this can be done with Check Constraints
80
    -- The advantage of putting it in a database is to make sure that the Data stored is consistant and conforms to a certain standard
81
82
    -- A good example would be
83
    -- Create Table ClassicMovies (
84
            name text,
85
            year int,
86
            CHECK (year < 1990));
    -- This Constraint will ensure any film in this "ClassicMovies" table is from before 1990
88
    -- A bad example would be
89
90
    -- Create Table ClassicMovies (
91
            name text,
            productionyear int,
93
            publishyear int
94
            CHECK (publishyear > productionyear));
    -- This Constraint is bad, because it eliminates the possibility of inserting a movie published in the same year it was produced.
```