DATE / NO. D. select ctms, ctr_number "(ustomer Number")
ctms first name "Customer Forst Name",
ctms last name "Customer Last Name",
ctms phone number " Customer Phone Number" ctors email " customer Email", s-rep. id " Sales Representative ID", S vep. first_name " Sales Representative First Name"

S-vep, last:name " Sales Representative Last Name"

S-rep, email " Sales Representative Email",

t. name " Team Name", from automers chas join sales representatives s-rep on (ctors . sre_id = s-rep. id) join teams t on c ctms. tem_id = t.id) E. // code same with D but add where ctms. ctr_number = 'coooi'; select The cost of the "litm. name II 'on this day was " II h. price " price of Items" from items itm join inventory—list inv_L
on (itm. ilt_id = inv_L. id)
join price history h
on (itm. itm_number = h. itm_number) itm. itm_number = 'imollo1045' and h.start_date < '12 - Oec -16' and h. end date > 12 - Dec - 16 1;

DATE / NO. part 2 as "Sales Representative", as "Supervisor" sales _representatives s select A. r. first_name II ' 11 r. last_name s. first_name II ' 11 s. last_name from sales_representatives r join on cr. superison id = s.id) select * from teams t left outer join customers itus on (t, id = ctons. tem_id); select * from customers, sales representatives;

Appendix

Part 1

Part 1

1.

select * from sales_representatives natural join sales_rep_addresses;

ID	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	COMMISSION_RATE	SUPERVISOR_ID	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ZIP_CODE
sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01	12 Cherry Lane	Denton	Detroit	DT48211
sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01	87 Blossom Hill	Uptown	Detroit	DT52314
sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01	12 Junction Row	Skinflats	Detroit	DT52564

2.

1 v select id, first_name, last_name, address_line_1, address_line_2, city, email, phone_number
2 from sales_representatives natural join sales_rep_addresses;

ID	FIRST_NAME	LAST_NAME	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	EMAIL	PHONE_NUMBER
sr01	Charles	Raymond	12 Cherry Lane	Denton	Detroit	chray@obl.com	0134598761
sr02	Victoria	Wright	87 Blossom Hill	Uptown	Detroit	vwright@obl.com	0134598762
sr03	Barry	Speed	12 Junction Row	Skinflats	Detroit	bspeed@obl.com	0134598763

Part 2

1.

1 v select * from sales_representatives join sales_rep_addresses
2 using(id);

ID	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	COMMISSION_RATE	SUPERVISOR_ID	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ZIP_CODE
sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01	12 Cherry Lane	Denton	Detroit	DT48211
sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01	87 Blossom Hill	Uptown	Detroit	DT52314
sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01	12 Junction Row	Skinflats	Detroit	DT52564

- 4 v select id, first_name, last_name, address_line_1, address_line_2, city, email, phone_number from sales_representatives join sales_rep_addresses
- 6 using(id);

ID	FIRST_NAME	LAST_NAME	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	EMAIL	PHONE_NUMBER
sr01	Charles	Raymond	12 Cherry Lane	Denton	Detroit	chray@obl.com	0134598761
sr02	Victoria	Wright	87 Blossom Hill	Uptown	Detroit	vwright@obl.com	0134598762
sr03	Barry	Speed	12 Junction Row	Skinflats	Detroit	bspeed@obl.com	0134598763

2.

```
1 v select * from items join price_history
2 using(itm_number);
```

ITM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	Size	ILT_ID	START_DATE	START_TIME	PRICE	END_DATE	END_TIME
im01101044	gloves	catcher mitt	clothing	brown	m	il010230124	17-JUN-17	17-JUN-16	4.99	-	-
im01101045	under shirt	top worn under the game top	clothing	white	S	il010230125	25-NOV-16	25-NOV-16	14.99	25-JAN-17	25-JAN-17
im01101045	under shirt	top worn under the game top	clothing	white	S	il010230125	25-JAN-17	25-JAN-17	8.99	25-JAN-17	25-JAN-17
im01101045	under shirt	top worn under the game top	clothing	white	S	il010230125	26-JAN-17	26-JAN-17	15.99	-	-
im01101046	socks	team socks with emblem	clothing	range	1	il010230126	12-FEB-17	12-FEB-17	7.99	-	-
im01101047	game top	team shirt with emblem	clothing	range	m	il010230127	25-APR-17	25-APR-17	24.99	-	-
im01101048	premium bat	high quaity basball bat	equipment	-	-	il010230128	31-MAY-17	31-MAY-17	149	27-DEC-23	27-DEC-23
im01101048	premium bat	high quaity basball bat	equipment	-	-	il010230128	27-DEC-23	27-DEC-23	99.99	-	-

Part 3

```
1 v select
        ctms.ctr_number "Customer Number",
2
        ctms.first_name "Customer First Name",
3
        ctms.last_name "Customer Last Name",
4
5
        ctms.phone number "Customer Phone Number",
6
        ctms.email "Customer Email",
        s_rep.id "Sales Representative ID",
7
        s_rep.first_name "Sales Representative First Name",
8
9
        s_rep.last_name "Sales Representative Last Name",
        s_rep.email "Sales Representative Email"
10
        from customers ctms join sales representatives s rep
11
        on (ctms.sre_id = s_rep.id);
12
```

Customer Number	Customer First Name	Customer Last Name	Customer Phone Number	Customer Email	Sales Representative ID	Sales Representative First Name	Sales Representative Last Name	Sales Representative Email
c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com
c00101	John	Doe	03216547808	unknown@here.com	sr01	Charles	Raymond	chray@obl.com
c01986	Maria	Galant	01442736589	margal87@delphiview.com	sn03	Barry	Speed	bspeed@obl.com

```
1 v select
        ctms.ctr number "Customer Number",
 2
 3
        ctms.first_name "Customer First Name",
        ctms.last name "Customer Last Name",
 4
 5
        ctms.phone number "Customer Phone Number",
        ctms.email "Customer Email",
 6
        s rep.id "Sales Representative ID",
 7
        s_rep.first_name "Sales Representative First Name",
8
9
        s rep.last name "Sales Representative Last Name",
        s rep.email "Sales Representative Email",
10
        t.name "Team Name"
11
        from customers ctms join sales representatives s rep
12
13
        on (ctms.sre id = s rep.id)
14
        join teams t
15
        on (ctms.tem_id = t.id);
```

Customer Number	Customer First Name	Customer Last Name	Customer Phone Number	Customer Email	Sales Representative ID	Sales Representative First Name	Sales Representative Last Name	Sales Representative Email	Team Name
c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com	Rockets
c00101	John	Doe	03216547808	unknown@here.com	sr01	Charles	Raymond	chray@obl.com	Celtics
c01986	Maria	Galant	01442736589	margal87@delphiview.com	sr03	Barry	Speed	bspeed@obl.com	Rovers

Part 5

```
1 v select
         ctms.ctr_number "Customer Number",
 2
 3
         ctms.first_name "Customer First Name",
 4
         ctms.last name "Customer Last Name",
 5
         ctms.phone_number "Customer Phone Number",
 6
         ctms.email "Customer Email",
 7
         s rep.id "Sales Representative ID",
         s rep.first name "Sales Representative First Name",
 8
         s_rep.last_name "Sales Representative Last Name",
 9
         s rep.email "Sales Representative Email",
10
         t.name "Team Name"
11
         from customers ctms join sales_representatives s_rep
12
         on (ctms.sre id = s rep.id)
13
        join teams t
14
15
         on (ctms.tem_id = t.id)
         where ctms.ctr number = 'c00001';
16
```

Customer Number	Customer First Name	Customer Last Name	Customer Phone Number	Customer Email	Sales Representative ID	Sales Representative First Name	Sales Representative Last Name	Sales Representative Email	Team Name	
c00001	Robert	Thornberry	01234567898	bob.thornberry@heatmail.com	sr01	Charles	Raymond	chray@obl.com	Rockets	

Part 6

```
1 v select
        'The cost of the ' || itm.name || ' on this day was ' || h.price as "Price of Items"
2
3
        from items itm join inventory_list inv_l
        on (itm.ilt_id = inv_l.id)
4
        join price_history h
5
        on (itm.itm_number = h.itm_number)
6
7
        where
            itm.itm_number = 'im01101045' and
8
            h.start_date < '12-Dec-16' and
9
            h.end_date > '12-Dec-16';
10
```

Price of Items

The cost of the under shirt on this day was 14.99

Part 2

Part 1

```
1 v select
2    r.first_name || ' ' || r.last_name as "Sales Representative",
3    s.first_name || ' ' || s.last_name as "Supervisor"
4    from sales_representatives r join sales_representatives s
5    on (r.supervisor_id = s.id);
```

Sales Representative	Supervisor
Charles Raymond	Charles Raymond
Victoria Wright	Charles Raymond
Barry Speed	Charles Raymond

Part 2

1 v select *
2 from teams t left outer join customers ctms
3 on (t.id = ctms.tem_id);

ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT	CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
t001	Rockets	25	10	c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	-
t002	Celtics	42	20	c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	-
t003	Rovers	8	-	c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	-
t004	Jets	10	5	-	-	-	-	-	-	-	-	-

Part 3

1 v select *
2 from customers, sales_representatives;

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER	ID	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	COMMISSION_RATE	SUPERVISOR_ID
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001		sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	-	-	lc1015	sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	-	sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	-	-	lc2341	sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003		sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
c02001	brianrog@hootech.com	Brain	Rogers	01654564898	50	-	-	lc4587	sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	-	sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	-	-	lc1015	sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002		sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	-	-	lc2341	sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	-	sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
c02001	brianrog@hootech.com	Brain	Rogers	01654564898	50			1c4587	sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	-	sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	-	-	lc1015	sn03	bspeed@obl.com	Banny	Speed	0134598763	5	sr01
c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002		sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85			lc2341	sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003		sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
c02001	brianrog@hootech.com	Brain	Rogers	01654564898	50			1c4587	sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001		sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0			lc1015	sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01
c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002		sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85		-	1c2341	sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003		sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01
c02001	brianrog@hootech.com	Brain	Rogers	01654564898	50		-	1c4587	sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01