

LAP #2

NAME: AMMAR YASSER SALAH

MATRIX NO: A22EC3001

SECTION: 03

- PART 1

1)

```
CREATE TABLE inventory_list(  
id VARCHAR(12),  
cost NUMBER(2,1),  
units NUMBER(3)  
);
```

```
INSERT INTO inventory_list (id, cost, units)  
VALUES('il010230124', 2.5, 100);  
INSERT INTO inventory_list (id, cost, units)  
VALUES('il010230125', 7.99, 250);  
INSERT INTO inventory_list (id, cost, units)  
VALUES('il010230126', 5.24, 87);  
INSERT INTO inventory_list (id, cost, units)  
VALUES('il010230127', 18.95, 65);  
INSERT INTO inventory_list (id, cost, units)  
VALUES('il010230128', 97.46, 8);
```

SQL Worksheet

ID	COST	UNITS
il010230124	2.5	100
il010230125	8	250
il010230126	5.2	87
il010230124	2.5	100
il010230125	8	250
il010230126	5.2	87

Download CSV

6 rows selected.

```
CREATE TABLE items(  
  itm_number VARCHAR(15),  
  name VARCHAR(10),  
  description VARCHAR(45),  
  category VARCHAR(15),  
  color VARCHAR(10),  
  "Size" VARCHAR(1),  
  ilt_id VARCHAR(15)  
);  
INSERT INTO items (itm_number, name, description, category, color, "Size", ilt_id )  
VALUES('im01101044', 'gloves', 'catcher mitt', 'clothing', 'brown', 'm', 'il010230124');  
INSERT INTO items (itm_number, name, description, category, color, "Size", ilt_id )  
VALUES('im01101045', 'under shirt', 'top worn under the game top', 'clothing',  
'white', 's', 'il010230125');  
INSERT INTO items (itm_number, name, description, category, color, "Size", ilt_id )  
VALUES('im01101046', 'socks', 'team socks with emblem', 'clothing', 'range',  
'l', 'il010230126');
```

```

INSERT INTO items (itm_number, name, description, category, color, "Size", ilt_id )
VALUES('im01101047', 'game top', 'team shirt with emblem', 'clothing', 'range',
'm', 'il010230127');
INSERT INTO items (itm_number, name, description, category, ilt_id )
VALUES('im01101048', 'premium bat', 'high quaity basball bat', 'equipment',
'il010230128');

```

<div> Clear Find Actions Save Run </div>						
ITM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	Size	ILT_ID
im01101044	gloves	catcher mitt	clothing	brown	m	il010230124
im01101045	under shirt	top worn under the game top	clothing	white	s	il010230125
im01101046	socks	team socks with emblem	clothing	range	l	il010230126
im01101047	game top	team shirt with emblem	clothing	range	m	il010230127
im01101048	premium bat	high quaity basball bat	equipment	-	-	il010230128

```

CREATE TABLE price_history (
    start_date DATE,
    start_time TIMESTAMP,
    price NUMBER(5,2),
    end_date DATE,
    end_time TIMESTAMP,
    itm_number VARCHAR(15)
);

```

```

INSERT INTO price_history (start_date, start_time, price, itm_number)
VALUES(TO_DATE('17-Jun-2017', 'DD-MM-YYYY'), TO_DATE('17-Jun-2016
09:00:00', 'DD-MM-YYYY hh24:mi:ss'), 4.99, 'im01101044');
INSERT INTO price_history (start_date, start_time, price, end_date, end_time,
itm_number)
VALUES(TO_DATE('25-Nov-2016', 'DD-MM-YYYY'), TO_DATE('25-Nov-2016
09:00:00', 'DD-MM-YYYY hh24:mi:ss'), 14.99, TO_DATE('25-Jan-2017', 'DD-MM-YYYY'),
TO_DATE('25-Jan-2017 17:00:00', 'DD-MM-YYYY hh24:mi:ss'),'im01101045');
INSERT INTO price_history (start_date, start_time, price, end_date, end_time,
itm_number)
VALUES(TO_DATE('25-Jan-2017', 'DD-MM-YYYY'), TO_DATE('25-Jan-2017
17:01:00', 'DD-MM-YYYY hh24:mi:ss'), 8.99, TO_DATE('25-Jan-2017', 'DD-MM-YYYY'),
TO_DATE('25-Jan-2017 19:00:00', 'DD-MM-YYYY hh24:mi:ss'),'im01101045');
INSERT INTO price_history (start_date, start_time, price, itm_number)
VALUES(TO_DATE('26-Jan-2017', 'DD-MM-YYYY'), TO_DATE('26-Jan-2017
09:00:00', 'DD-MM-YYYY hh24:mi:ss'), 15.99, 'im01101045');
INSERT INTO price_history (start_date, start_time, price, itm_number)

```

```

VALUES(TO_DATE('12-Feb-2017', 'DD-MM-YYYY'), TO_DATE('12-Feb-2017
12:30:00', 'DD-MM-YYYY hh24:mi:ss'), 7.99, 'im01101046');
INSERT INTO price_history (start_date, start_time, price, itm_number)
VALUES(TO_DATE('25-Apr-2017', 'DD-MM-YYYY'), TO_DATE('25-Apr-2017
10:10:10', 'DD-MM-YYYY hh24:mi:ss'), 24.99, 'im01101047');
INSERT INTO price_history (start_date, start_time, price, itm_number)
VALUES(TO_DATE('31-May-2017', 'DD-MM-YYYY'), TO_DATE('31-May-2017
16:35:30', 'DD-MM-YYYY hh24:mi:ss'), 149.00, 'im01101048');

```

<div> Clear Find Actions Save Run </div>					
START_DATE	START_TIME	PRICE	END_DATE	END_TIME	ITM_NUMBER
17-JUN-17	17-JUN-16 09.00.00.000000 AM	4.99	-	-	im01101044
25-NOV-16	25-NOV-16 09.00.00.000000 AM	14.99	25-JAN-17	25-JAN-17 05.00.00.000000 PM	im01101045
25-JAN-17	25-JAN-17 05.01.00.000000 PM	8.99	25-JAN-17	25-JAN-17 07.00.00.000000 PM	im01101045
26-JAN-17	26-JAN-17 09.00.00.000000 AM	15.99	-	-	im01101045
12-FEB-17	12-FEB-17 12.30.00.000000 PM	7.99	-	-	im01101046
25-APR-17	25-APR-17 10.10.10.000000 AM	24.99	-	-	im01101047
31-MAY-17	31-MAY-17 04.35.30.000000 PM	149	-	-	im01101048

```

CREATE TABLE sales_representatives (
    id VARCHAR(10),
    email VARCHAR(55),
    first_name VARCHAR(50),
    last_name VARCHAR(50),
    phone_number VARCHAR(15),
    commission_rate NUMBER(5,2),
    supervisor_id VARCHAR(10)
);

```

```

INSERT INTO sales_representatives (id, email, first_name, last_name,
phone_number, commission_rate, supervisor_id)
VALUES('sr01', 'chray@obl.com', 'Charles', 'Raymond', '0134598761', 10, 'sr01');
INSERT INTO sales_representatives (id, email, first_name, last_name,
phone_number, commission_rate, supervisor_id)
VALUES('sr02', 'vwright@obl.com', 'Victoria', 'Wright', '0134598762', 5, 'sr01');

```

```
INSERT INTO sales_representatives (id, email, first_name, last_name,
phone_number, commission_rate, supervisor_id)
VALUES('sr03', 'bspeed@obl.com', 'Barry', 'Speed', '0134598763', 5, 'sr01');
```

SQL Worksheet Clear Find Actions Save Run

ID	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	COMMISSION_RATE	SUPERVISOR_ID
sr01	chray@obl.com	Charles	Raymond	0134598761	10	sr01
sr02	vwright@obl.com	Victoria	Wright	0134598762	5	sr01
sr03	bspeed@obl.com	Barry	Speed	0134598763	5	sr01

[Download CSV](#)

3 rows selected.

```
CREATE TABLE sales_rep_addresses (
    id VARCHAR(10),
    address_line_1 VARCHAR(55),
    address_line_2 VARCHAR(55),
    city VARCHAR(50),
    zip_code VARCHAR(10)
);
INSERT INTO sales_rep_addresses (id, address_line_1, address_line_2, city,
zip_code )
VALUES('sr01', '12 Cherry Lane', 'Denton', 'Detroit', 'DT48211');

INSERT INTO sales_rep_addresses (id, address_line_1, address_line_2, city,
zip_code )
VALUES('sr02', '87 Blossom Hill', 'Uptown', 'Detroit', 'DT52314');

INSERT INTO sales_rep_addresses (id, address_line_1, address_line_2, city,
zip_code )
VALUES('sr03', '12 Junction Row', 'Skinflats', 'Detroit', 'DT52564');
```

SQL Worksheet

Clear Find Actions Save Run

ID	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ZIP_CODE
sr01	12 Cherry Lane	Denton	Detroit	DT48211
sr02	87 Blossom Hill	Uptown	Detroit	DT52314
sr03	12 Junction Row	Skinflats	Detroit	DT52564

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```
CREATE TABLE teams (
    id VARCHAR(10) ,
    name VARCHAR(255),
    number_of_players NUMBER(2),
    discount NUMBER(2)
);
INSERT INTO teams (id, name, number_of_players, discount)
VALUES('t001', 'Rockets', 25, 10);

INSERT INTO teams (id, name, number_of_players, discount)
VALUES('t002', 'Celtics', 42, 20);

INSERT INTO teams (id, name, number_of_players, discount)
VALUES('t003', 'Rovers', 8, null);
```

SQL Worksheet

Clear Find Actions Save Run

ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT
t001	Rockets	25	10
t002	Celtics	42	20
t003	Rovers	8	-

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```
CREATE TABLE customers (
    ctr_number VARCHAR(10),
    email VARCHAR(55),
    first_name VARCHAR(50),
    last_name VARCHAR(50),
```

```
    phone_number VARCHAR(15),
    current_balance NUMBER(10, 2),
    sre_id VARCHAR(10),
    tem_id VARCHAR(10),
    loyalty_card_number VARCHAR(10)
);
```

```
INSERT INTO customers (ctr_number, email, first_name, last_name, phone_number,
current_balance, sre_id, tem_id, loyalty_card_number)
VALUES('c00001', 'bob.thornberry@heatmail.com', 'Robert', 'Thornberry',
'01234567898', 150.00, 'sr01', 't001', null);
```

```
INSERT INTO customers (ctr_number, email, first_name, last_name, phone_number,
current_balance, loyalty_card_number)
VALUES('c00012', 'Jjones@freemail.com', 'Jennifer', 'Jones', '01505214598', 0.00,
'lc1015');
```

```
INSERT INTO customers (ctr_number, email, first_name, last_name, phone_number,
current_balance, sre_id, tem_id)
VALUES('c00101', 'unknown@here.com', 'John', 'Doe', '03216547808', 987.50, 'sr01',
't002');
```

```
INSERT INTO customers (ctr_number, email, first_name, last_name, phone_number,
current_balance, loyalty_card_number)
VALUES('c00103', 'MurciaA@globaltech.com', 'Andrew', 'Murcia', '07715246890',
85.00, 'lc2341');
```

```
INSERT INTO customers (ctr_number, email, first_name, last_name, phone_number,
current_balance, sre_id, tem_id)
VALUES('c01986', 'margal87@delphiview.com', 'Maria', 'Galant', '01442736589',
125.65
, 'sr03', 't003');
```

SQL Worksheet

Clear Find Actions Save Run

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0
c00101	unknown@here.com	John	Doe	03216547808	987.5
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65

Download CSV

5 rows selected.

```

CREATE TABLE customers_addresses (
    id VARCHAR(10),
    address_line_1 VARCHAR(255),
    address_line_2 VARCHAR(255),
    city VARCHAR(50),
    zip_code VARCHAR(10),
    ctr_number VARCHAR(10)
);

INSERT INTO customers_addresses (id, address_line_1, address_line_2, city,
zip_code, ctr_number)
VALUES('ca0101', '83 Barrhill Drive', null, 'Liverpool', 'LP79HJK', 'c00001');

INSERT INTO customers_addresses (id, address_line_1, address_line_2, city,
zip_code, ctr_number)
VALUES('ca0102', '17 Gartsquare Road', 'Starford', 'Liverpool', 'LP89JHK', 'c00001');

INSERT INTO customers_addresses (id, address_line_1, address_line_2, city,
zip_code, ctr_number)
VALUES('ca0103', '54 Ropehill Crescent', 'Georgetown', 'Star', 'ST45AGV', 'c00101');

INSERT INTO customers_addresses (id, address_line_1, address_line_2, city,
zip_code, ctr_number)
VALUES('ca0104', '36 Watercress Lane', null, 'Jump', 'JP23YTH', 'c01986');

INSERT INTO customers_addresses (id, address_line_1, address_line_2, city,
zip_code, ctr_number)
VALUES('ca0105', '63 Acacia Drive', 'Skins', 'Liverpool', 'LP83JHR', 'c00001');

```


SQL Worksheet					
		Clear	Find	Actions	Save
Run					
ID	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ZIP_CODE	CTR_NUMBER
ca0101	83 Barrhill Drive	-	Liverpool	LP79HJK	c00001
ca0102	17 Gartsquare Road	Starford	Liverpool	LP89JHK	c00001
ca0103	54 Ropehill Crescent	Georgetown	Star	ST45AGV	c00101
ca0104	36 Watercress Lane	-	Jump	JP23YTH	c01986
ca0105	63 Acacia Drive	Skins	Liverpool	LP83JHR	c00001

```

CREATE TABLE orders (
    id VARCHAR(20),
    odr_date DATE,
    odr_time TIMESTAMP,
    number_of_units NUMBER(2),
    ctr_number VARCHAR(10)
);
INSERT INTO orders (id, odr_date, odr_time, number_of_units, ctr_number)
VALUES('or0101350', TO_DATE('24-May-2017', 'DD-MM-YYYY'),
TO_DATE('24-May-2017 10:30:35
', 'DD-MM-YYYY hh24:mi:ss'), 5, 'c00001');

INSERT INTO orders (id, odr_date, odr_time, number_of_units, ctr_number)
VALUES('or0101425', TO_DATE('28-May-2017', 'DD-MM-YYYY'),
TO_DATE('28-May-2017 12:30:00
', 'DD-MM-YYYY hh24:mi:ss'), 18, 'c00103');

INSERT INTO orders (id, odr_date, odr_time, number_of_units, ctr_number)
VALUES('or0101681', TO_DATE('02-Jun-2017', 'DD-MM-YYYY'),
TO_DATE('02-Jun-2017 14:55:30
', 'DD-MM-YYYY hh24:mi:ss'), 10, 'c00001');

INSERT INTO orders (id, odr_date, odr_time, number_of_units, ctr_number)
VALUES('or0101750', TO_DATE('18-Jun-2017', 'DD-MM-YYYY'),
TO_DATE('18-Jun-2017 09:05:00
', 'DD-MM-YYYY hh24:mi:ss'), 1, 'c01986');

```

SQL Worksheet				
Clear		Find		Actions ▾
Save		Run ▶		
ID	ODR_DATE	ODR_TIME	NUMBER_OF_UNITS	CTR_NUMBER
or0101250	17-APR-17	17-APR-17 08.32.30.000000 AM	10	c00001
or0101350	24-MAY-17	24-MAY-17 10.30.35.000000 AM	5	c00001
or0101425	28-MAY-17	28-MAY-17 12.30.00.000000 PM	18	c00103
or0101681	02-JUN-17	02-JUN-17 02.55.30.000000 PM	10	c00001
or0101750	18-JUN-17	18-JUN-17 09.05.00.000000 AM	1	c01986

```

CREATE TABLE ordered_items (
    quantity_ordered NUMBER(2),
    quantity_shipped NUMBER(2),
    odr_id VARCHAR(20),
    itm_number VARCHAR(20)
);

INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id,
itm_number)
VALUES(5, 5, 'or0101250', 'im01101044');

INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id,
itm_number)
VALUES(5, 5, 'or0101250', 'im01101046');

INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id,
itm_number)
VALUES(5, 5, 'or0101350', 'im01101044');

INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id,
itm_number)
VALUES(18, 18, 'or0101425', 'im01101047');

INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id,
itm_number)
VALUES(10, 10, 'or0101681', 'im01101047');

INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id,
itm_number)
VALUES(1, 1, 'or0101750', 'im01101048');

```

Clear	Find	Actions	Save	Run
QUANTITY_ORDERED	QUANTITY_SHIPPED	ODR_ID	ITM_NUMBER	
5	5	or0101250	im01101044	
5	5	or0101250	im01101046	
5	5	or0101350	im01101044	
18	18	or0101425	im01101047	
10	10	or0101681	im01101047	
1	1	or0101750	im01101048	

2)

1- INSERT INTO teams (id, name, number_of_players, discount)
VALUES('t004', 'Jets', 10, 5);

Clear	Find	Actions	Save	Run
ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT	
t004	Jets	10	5	
t001	Rockets	25	10	
t002	Celtics	42	20	
t003	Rovers	8	-	

2- INSERT INTO customers (ctr_number, email, first_name, last_name,
phone_number, current_balance, sre_id, tem_id, loyalty_card_number)
VALUES('c02001', 'brianrog@hootech.com', 'Brian', 'Rogers', 01654564898, -5, null,
null, 'lc4587');

SQL Worksheet								
CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	-
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	-	-	lc1015
c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	-
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	-	-	lc2341
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	-
c02001	brianrog@hoootech.com	Brian	Rogers	1654564898	-5	-	-	lc4587

3- UPDATE customers

SET current_balance = 50

WHERE current_balance = -5;

SQL Worksheet								
CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	-
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	-	-	lc1015
c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	-
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	-	-	lc2341
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	-
c02001	brianrog@hoootech.com	Brian	Rogers	1654564898	50	-	-	lc4587

Download CSV

6 rows selected.

Name: Ammar Yasser Salah
Matrix no: A22EC3001
Section: A22EC3001

PART #2

- PART 1 Updating rows to the system

1)

START_DATE	TO_CHAR(START_TIME, 'HH24:MI:SS')	PRICE	END_DATE	TO_CHAR(END_TIME, 'HH24:MI:SS')
17-JUN-17	09:00:00	4.99	-	-
25-NOV-16	09:00:00	14.99	25-JAN-17	17:00
25-JAN-17	17:01:00	8.99	25-JAN-17	19:00
26-JAN-17	09:00:00	15.99	-	-
12-FEB-17	12:30:00	7.99	-	-
25-APR-17	10:10:10	24.99	-	-
31-MAY-17	16:35:30	149	-	-

2)

UPDATE price_history

SET end_date = SYSDATE, end_time = SYSTIMESTAMP

WHERE itm_number = 'im01101048' AND end_time is null;

3)

SQL Worksheet						Clear	Find	Actions	Save	Run
START_DATE	START_TIME	PRICE	END_DATE	END_TIME	ITM_NUMBER					
17-JUN-17	17-JUN-16 09.00.00.000000 AM	4.99	-	-	im01101044					
25-NOV-16	25-NOV-16 09.00.00.000000 AM	14.99	25-JAN-17	25-JAN-17 05.00.00.000000 PM	im01101045					
25-JAN-17	25-JAN-17 05.01.00.000000 PM	8.99	25-JAN-17	25-JAN-17 07.00.00.000000 PM	im01101045					
26-JAN-17	26-JAN-17 09.00.00.000000 AM	15.99	-	-	im01101045					
12-FEB-17	12-FEB-17 12.30.00.000000 PM	7.99	-	-	im01101046					
25-APR-17	25-APR-17 10.10.10.000000 AM	24.99	-	-	im01101047					
31-MAY-17	31-MAY-17 04.35.30.000000 PM	149	09-NOV-23	09-NOV-23 02.49.31.710035 PM	im01101048					

4)

INSERT INTO price_history (start_date, start_time, price, itm_number)

VALUES(SYSDATE, SYSTIMESTAMP, 99.99, 'im01101048')

5)

START_DATE	START_TIME	PRICE	END_DATE	END_TIME	ITM_NUMBER
09-NOV-23	09-NOV-23 02.53.27.966112 PM	99.99	-	-	im01101048
17-JUN-17	17-JUN-16 09.00.00.000000 AM	4.99	-	-	im01101044
25-NOV-16	25-NOV-16 09.00.00.000000 AM	14.99	25-JAN-17	25-JAN-17 05.00.00.000000 PM	im01101045
25-JAN-17	25-JAN-17 05.01.00.000000 PM	8.99	25-JAN-17	25-JAN-17 07.00.00.000000 PM	im01101045
26-JAN-17	26-JAN-17 09.00.00.000000 AM	15.99	-	-	im01101045
12-FEB-17	12-FEB-17 12.30.00.000000 PM	7.99	-	-	im01101046
25-APR-17	25-APR-17 10.10.10.000000 AM	24.99	-	-	im01101047
31-MAY-17	31-MAY-17 04.35.30.000000 PM	149	09-NOV-23	09-NOV-23 02.49.31.710035 PM	im01101048

-PART 2 Deleting rows from the system

1)

```
DELETE FROM customers_addresses
WHERE address_line_1 = '83 Barrhill Drive';
```

2)

ID	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ZIP_CODE	CTR_NUMBER
ca0102	17 Gartsquare Road	Starford	Liverpool	LP89JHK	c00001
ca0103	54 Ropehill Crescent	Georgetown	Star	ST45AGV	c00101
ca0104	36 Watercress Lane	-	Jump	JP23YTH	c01986
ca0105	63 Acacia Drive	Skins	Liverpool	LP83JHR	c00001

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