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Section : 06

## SQL3 - DML2 Part 1

### Part 1

#### 1. customers

**SELECT\* FROM customers;**

Results Explain Describe Saved SQL History								
CTE_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SIZE_ID	ITEM_ID	LOYALTY_CARD_NUMBER
000001	brianngohotech.com	Brian	Ngoh	0105454899	50	-	-	K4587
000001	brianberry@gmail.com	Robert	Thomerry	0125454898	50	M01	1001	-
000002	alexapersonal.com	Sophia	Jones	0123456789	-	-	-	K4575
000003	valeriepersonal.com	John	Doe	0123456789	1000	M01	1002	-
000005	Murphy@globalworks.com	Annette	Murphy	07775544450	80	-	-	K2541
000006	margot@globalworks.com	Maria	Galea	01447755099	1000	M02	1003	-

#### 2. teams

**SELECT\* FROM teams;**

Results Explain Describe Saved SQL History				
ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT	
1004	Jets	10	5	
1001	Rockets	25	10	
1002	Celtics	42	20	
1005	Rovers	8	-	

#### 3. items

**SELECT\* FROM items;**

Results Explain Describe Saved SQL History							
ITEM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	SIZE	ITEM_ID	
IM0101044	gloves	catcher mitt	clothing	brown	m	1010250104	
IM0101045	under shirt	top worn under the game top	clothing	white	s	1010250105	
IM0101046	socks	team socks with emblem	clothing	orange	l	1010250106	
IM0101047	game top	team shirt with emblem	clothing	orange	m	1010250107	
IM0101048	premium bat	high quality baseball bat	equipment	-	-	1010250108	

## Part 2

1. SELECT ctr\_number , first\_name , last\_name , email , phone\_number  
FROM customers ;

Results Explain Describe Saved SQL History				
CTR_NUMBER	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER
002001	Brian	Rogers	brianrog@hostech.com	01654564898
000001	Robert	Thornberry	bob.thornberry@heatmail.com	01234567898
000012	Jennifer	Jones	j.jones@freetmail.com	01950214098
000101	John	Doe	unknown@here.com	03216547808
000103	Andrew	Murcia	MurciaA@globaltech.com	07716246890
001986	Maria	Gelant	margalit@delphiview.com	01442736589

2. SELECT name , number\_of\_players  
FROM teams ;

Results Explain Describe Saved SQL History	
NAME	NUMBER_OF_PLAYERS
Jets	10
Rockets	25
Celtics	42
Rovers	8

3. SELECT name , description , category  
FROM items ;

Results Explain Describe Saved SQL History		
NAME	DESCRIPTION	CATEGORY
gloves	catcher mitt	clothing
under shirt	top worn under the game top	clothing
socks	team socks with emblem	clothing
game top	team shirt with emblem	clothing
premium bat	high quality baseball bat	equipment

## SQL3 - DML2 Part 2

## Part I

1. SELECT first\_name, last\_name, current\_balance, current\_balance / 12  
AS monthly\_payment  
FROM customers;

```
1 SELECT first_name, last_name, current_balance, current_balance/12 AS monthly_payment  
2 FROM customers;
```

2. SELECT first\_name, last\_name, ctr\_number, current\_balance, current\_balance - 5 AS current\_balance\_after\_minus\_gift\_value  
FROM customers;

```
1 SELECT first_name, last_name, current_balance, current_balance/12 AS monthly_payment  
2 FROM customers;  
3  
4 SELECT first_name, last_name, ctr_number, current_balance, current_balance-5 AS current_balance_after_minus_gift_value  
5 FROM customers;
```

Results	Explain	Describe	Saved SQL	History
First Name	Last Name	Ctrl Number	Current Balance	Current Balance After Minus Gift Value
Brian	Rogers	c02001	50	45
Robert	Thomberry	c00001	150	145
Jennifer	Jones	c00012	0	-.5
John	Doe	c00101	987.5	982.5
Andrew	Murcia	c00103	85	80
Maria	Galant	c07886	125.65	120.65

3. The value of current balance cannot be zero.

## Part 2

1. SELECT first\_name AS "First Name", last\_name AS "LAST Name", current\_balance AS "Balance", current\_balance/12 AS "Monthly Repayments"

```
1 SELECT first_name AS "First Name", last_name AS "Last Name", current_balance AS "Balance", current_balance/12 AS "Monthly Repayments"
2 FROM customers;
3
```

## Part 3

1. SELECT 'The ' || name || ' team has ' || number\_of\_players || ' players and receives a discount of ' || discount || ' percent.' AS "Team Information"  
FROM teams;

```
1 SELECT 'The ' || name || ' team has ' || number_of_players || ' players and receives a discount of ' || discount || ' percent.' AS "Team Information"
2 FROM teams;
```

Results Explain Describe Saved SQL History

Team Information

```
The Jets team has 10 players and receives a discount of 5 percent.
The Rockets team has 25 players and receives a discount of 10 percent.
The Celtics team has 42 players and receives a discount of 20 percent.
The Rovers team has 8 players and receives a discount of percent.
```

4 rows returned in 0.00 seconds Download

2. It contains a null value.

## SQL3 - DML2 Part 3

### Part 1

1. SELECT \*  
FROM customers  
WHERE ctr\_number = 'C01978';

```
1 SELECT *
2 FROM customers
3 WHERE ctr_number = 'C01978';
```

Results Explain Describe Saved SQL History

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SIE_ID	TIM_ID	LOYALTY_CARD_NUMBER
C01978	Happy@bigbrightview.com	Maria	Gallant	01642/33089	105.65	9013	1003	-

1 row returned in 0.01 seconds Download

2. SELECT first\_name AS "First Name", last\_name AS "Last Name", ctr\_number AS "Customer Number"  
FROM customers  
WHERE current\_balance > 100 ;

```
1 SELECT *
2 FROM customers
3 WHERE ctr_number = 'C01978';
4
5 SELECT first_name AS "First Name", last_name AS "Last Name", ctr_number AS "Customer Number"
6 FROM customers
7 WHERE current_balance > 100;
```

Results Explain Describe Saved SQL History

First Name	Last Name	Customer Number
Robert	Thomberry	C00001
John	Doe	C00001
Maria	Gallant	C01978

3 rows returned in 0.01 seconds Download

3. SELECT id AS "Order ID", odr\_date AS "Order Date", TO\_CHAR(odr\_time, 'HH24:MI :SS') AS "Order Time"  
 FROM orders  
 WHERE EXTRACT(YEAR FROM odr\_date) < 2019 OR  
 (EXTRACT(YEAR FROM odr\_date) < 2019 AND EXTRACT(MONTH FROM odr\_date) < 5 AND EXTRACT(DAY FROM odr\_date) < 28);

```

1  SELECT *
2  FROM customers
3  WHERE ctr_number = 'c81980';
4
5  SELECT first_name AS "First Name", last_name AS "Last Name", ctr_number AS "Customer Number"
6  FROM customers
7  WHERE current_balance>100;
8
9  SELECT id AS "Order ID", odr_date AS "Order Date", TO_CHAR(odr_time, 'HH24:MI:SS') AS "Order Time"
10 FROM orders
11 WHERE EXTRACT(YEAR FROM odr_date) < 2019
12 OR (EXTRACT(YEAR FROM odr_date) = 2019 AND EXTRACT(MONTH FROM odr_date) < 5 AND EXTRACT(DAY FROM odr_date) < 28);
13
14 SELECT id AS "Order ID", odr_date AS "Date", TO_CHAR(odr_time, 'HH24:MI:SS') AS "Order Time"
15 FROM orders
16 WHERE odr_date < '28-May-2019'; //Error not a valid month, could not identify reason

```

Results			
	Order ID	Order Date	Order Time
	ord0101250	04/17/2017	08:52:50
	ord0101550	05/24/2017	10:30:35
	ord0104252	05/29/2017	12:30:00
	ord0106881	06/03/2017	14:55:30
	ord010750	06/08/2017	09:05:00

## Part 2

1. SELECT id AS "Inventory ID", cost AS "Cost", units AS "Number of Units"  
 FROM inventory\_list  
 WHERE cost BETWEEN 3.00 AND 15.00;

```

1  SELECT id AS "Inventory ID", cost AS "Cost", units AS "Number of Units"
2  FROM inventory_list
3  WHERE cost BETWEEN 3.00 AND 15.00;

```

Results			
	Inventory ID	Cost	Number of Units
	8000230125	7.99	250
	8000230126	5.24	87

## Part 3

1. SELECT id AS "Inventory ID", cost AS "Cost", units AS "Number of Units"  
 FROM inventory\_list  
 WHERE units IN (50, 100, 150, 200)

```

1  SELECT id AS "Inventory ID", cost AS "Cost", units AS "Number of Units"
2  FROM inventory_list
3  WHERE units IN (50, 100, 150, 200);

```

Results			
	Inventory ID	Cost	Number of Units
	4000230124	2.5	100

## Part 4

1. SELECT id AS "Inventory ID", cost AS "Cost", units AS "Number of Units"  
FROM inventory\_list  
WHERE units NOT IN (50, 100, 150, 200)

```
1 SELECT id AS "Inventory ID", cost AS "Cost", units AS "Number of Units"
2 FROM inventory_list
3 WHERE units NOT IN (50, 100, 150, 200);
```

Inventory ID	Cost	Number of Units
I010230105	799	250
I010230106	5.24	87
I010230107	18.95	65
I010230108	97.46	8

2 rows returned in 0.00 seconds Download

## Part 5

1. SELECT item\_number AS "Item Number", name AS "Item Name"  
FROM items  
WHERE name LIKE 'g%';

```
1 SELECT item_number AS "Item Number", name AS "Item Name"
2 FROM items
3 WHERE name LIKE 'g%';
```

Item Number	Item Name
im0101044	gloves
im0101047	game top

2 rows returned in 0.00 seconds Download

## Part 6

1. SELECT item\_number AS "Item Number", name AS "Item Name"  
FROM items  
WHERE name LIKE '%o%';

```
1 SELECT item_number AS "Item Number", name AS "Item Name"
2 FROM items
3 WHERE name LIKE '%o%';
```

Item Number	Item Name
im0101044	gloves
im0101046	rocks
im0101047	game top

3 rows returned in 0.00 seconds Download

## SQL3 - DML2 Part 4

### Part 1

1. SELECT 'The ' || name || ' team has ' || number\_of\_players || ' players and does not receive a discount.' AS "Team Information"  
 FROM teams;  
 WHERE discount IS NULL;

```

1 SELECT 'The ' || name || ' team has ' || number_of_players || ' players and does not receive a discount.' AS "Team Information"
2 FROM teams
3 WHERE discount IS NULL;

```

Results Explain Describe Saved SQL History

Team Information

The Rovers team has 8 players and does not receive a discount.

1 rows returned in 0.01 seconds [Download](#)

2. SELECT 'The ' || name || ' team has ' || number\_of\_players || ' players and receives a discount of ' || discount || ' percent.' AS "Team Information"  
 FROM teams;  
 WHERE discount IS NOT NULL;

### Part 2

1. SELECT ctr\_number AS "Customer Number", address\_line\_1 AS "Street Address", zip\_code AS "Postal Code"  
 FROM customers\_addresses  
 WHERE address\_line\_2 = 'Starford' AND city = 'Liverpool';

```

1 SELECT ctr_number AS "Customer Number", address_line_1 AS "Street Address", zip_code AS "Postal Code"
2 FROM customers_addresses
3 WHERE address_line_2 = 'Starford' AND city = 'Liverpool';

```

Results Explain Describe Saved SQL History

Customer Number	Street Address	Postal Code
c00001	17 Gartsquare Road	LP89JHK

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## Part 3

1. SELECT ctr\_number AS "Customer Number", address\_line\_1 AS "Street Address", zip\_code AS "Postal Code"  
FROM customers\_addresses  
WHERE address\_line\_2 = 'Starford' OR city = 'Liverpool';

```
1 SELECT ctr_number AS "Customer Number", address_line_1 AS "Street Address", zip_code AS "Postal Code"
2 FROM customers_addresses
3 WHERE address_line_2 = 'Starford' OR city = 'Liverpool';

Results Explain Describe Saved SQL History
Customer Number | Street Address | Postal Code
c00001           | 17 Gorse Square Road | LP89JHK
c00001           | 65 Acacia Drive | LP85SHR
c00001           | 83 Beech Hill Drive | LP79HJK
3 rows returned in 0.01 seconds Download
```

## Part 4

1. SELECT ctr\_number AS "Customer Number", address\_line\_1 AS "Street Address", zip\_code AS "Postal Code"  
FROM customers\_addresses  
WHERE city NOT IN ('Liverpool');

```
1 SELECT ctr_number AS "Customer Number", address_line_1 AS "Street Address", zip_code AS "Postal Code"
2 FROM customers_addresses
3 WHERE city NOT IN ('Liverpool');

Results Explain Describe Saved SQL History
Customer Number | Street Address | Postal Code
c00101           | 54 Ropewalk Crescent | ST45AGV
c01986           | 36 Watercress Lane | JR23YTH
2 rows returned in 0.01 seconds Download
```

## SQL3 - DML2 Part 5

1. SELECT name AS "Team Name", number\_of\_players AS "Number of Players"  
FROM teams  
ORDER BY name;

```
1 SELECT name AS "Team Name", number_of_players AS "Number of Players"
2 FROM teams
3 ORDER BY name;
```

Results Explain Describe Saved SQL History

Team Name	Number of Players
Celtics	42
Jets	10
Rockets	25
Rovers	8

4 rows returned in 0.01 seconds Download

2. SELECT name AS "Team Name", number\_of\_players AS "Number of Players"  
FROM teams  
ORDER BY number\_of\_players DESC;

```
1 SELECT name AS "Team Name", number_of_players AS "Number of Players"
2 FROM teams
3 ORDER BY number_of_players DESC;
```

Results Explain Describe Saved SQL History

Team Name	Number of Players
Celtics	42
Rockets	25
Jets	10
Rovers	8

4 rows returned in 0.00 seconds Download

3. SELECT name AS "Team Name", number\_of\_players AS "Players"  
FROM teams  
ORDER BY name DESC;

```
1 SELECT name AS "Team Name", number_of_players AS "Players"
2 FROM teams
3 ORDER BY name DESC;
```

Results Explain Describe Saved SQL History

Team Name	Players
Rovers	8
Rockets	25
Jets	10
Celtics	42

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## SQL3 - DML2 Part 6

### Part 1

1. SELECT ROWNUM AS "Order", first\_name || ' ' || last\_name AS "Customer Name"  
FROM  
(  
SELECT first\_name, last\_name  
FROM customers  
ORDER BY ctr\_number  
)  
WHERE ROWNUM <= 3 ;

```
1 SELECT ROWNUM AS "Order", first_name || ' ' || last_name AS "Customer Name"
2 FROM
3 (
4     SELECT first_name, last_name
5     FROM customers
6     ORDER BY ctr_number
7 )
8 WHERE ROWNUM <= 3;
```

Results Explain Describe Saved SQL History

Order	Customer Name
1	Robert Thornberry
2	Jennifer Jones
3	John Doe

Rows returned in 0.00 seconds Download

### Part 2

1. SELECT first\_name || ' ' || last\_name AS "Sales Representative Name",  
commission\_rate AS "Commission Rate"  
FROM sales\_representatives  
WHERE commission\_rate = :commission\_rate  
ORDER BY last\_name ;

```
1 SELECT first_name || ' ' || last_name AS "Sales Representative Name", commission_rate AS "Commission Rate"
2 FROM sales_representatives
3 WHERE commission_rate = :commission_rate
4 ORDER BY last_name ;
```

Enter Bind Variables - Google Chrome

Bind Variable Value

COMMISSION_RATE	5
-----------------	---

Results Explain Describe Saved SQL History

Sales Representative Name	Commission Rate
Barry Speed	5
Victoria Wright	5

2 rows returned in 0.01 seconds Download

```
1 SELECT first_name || ' ' || last_name AS "Sales Representative Name", commission_rate AS "Commission Rate"
2 FROM sales_representatives
3 WHERE commission_rate = :commission_rate
4 ORDER BY last_name;
```

Enter Bind Variables - Google Chrome  
https://apex.oracle.com/pls/apex/f?p=4500:138:32936834&f12:=

Bind Variable	Value
:COMMISSION_RATE	10

Results Explain Describe Saved SQL History

```
1 SELECT first_name || ' ' || last_name AS "Sales Representative Name", commission_rate AS "Commission Rate"
2 FROM sales_representatives
3 WHERE commission_rate = :commission_rate
4 ORDER BY last_name;
```

Results Explain Describe Saved SQL History

Sales Representative Name	Commission Rate
Charles Raymond	10

1 rows returned in 0.00 seconds Download