Tay show we: lab 3 ADD ECO110

Part 1

8 Part 1 Ratrieving all columns from a table

- 1. SELECT * FROM customers;
- 3. SELECT * FROM teams;
- 3. SELECT * FROM Hom items;

Part 2 Selecting Specific Columns

- 1. SELECT ctr_number, first_name, last_name, cmail, phone-number FROM customers;
- 2. SELECT name, number-of-players from teams;
- 3. SELECT name, description, category Fram items;

Part 2

Part 1: using Arithmetic Operators

- 1. SELECT first_name, last_name, current_balance, current_balance/12 As monthly-payment FROM address
- D. SELECT first_name, last_name, ctr_number, current_balance, current_balance 5.00 As adjusted balance from customers;
- 3. when current balance is zero, the adjusted _ balance becomes _ 5 which is illegical in roal world

Part 2: using column Aliases

1. SELECT first name & "First None", last name "Last Name", current_balance "Balance", current_balance 12 " Monthly Repayments" FROM customer;

4. Part 3: Using Literal character strings

- 1. SELECT 'the' 11 name 11 'team has' 11 number_of_players 11 'players and necesses a discount of 11 discount 11 'percent', "Team Information" from team s;
- 2. It is because the discount of the last team (Rovers) is null

Part 1 : Using the WHERE clause

1. SELECT * FROM customs WHE WHERE ctr. number= c01986';

). SELECT first -name, last -name, ctr_number FROM customers where current-balance 7100;

3. SELECT id , odr_date, odr_time. PROM orders wHERE odr-date ('seemay-2019')

Part 2: Range conditions: Between Operators

1. SELECT id, cost, units FROM inventory_list WHERH cost between 3.00 and 15.00;

Part 3: Membership condition: IN Operator

21. SELECT id, cost, units FROM inventory - list WHERH units IN (50,100,150,200);
Part 4: membership conditions: Not In operator

1. SELECT id, cost, units from inventory-list WHERE units Not IN (50,100,150,200)

Part 5: Pattern Matching: Like operator

1. SELECT itm-number "Item Number", name "Item Name" FROM items wHERE name LIKE '9%;

Part 6: Pattern matching : combining wild card characters with the LIKE Operator

1. SELECT itm-number "Item Number", name "Item Name" FROM items WHERE none UKE 600%;

Part 4

Part 1 : Using the NULL conditions

1. SELECT 'The 11 name 11 'team has 11 number_ of _ players 11 ' Players and does not necesse a discount. "TEAM information" FROM teams when where discount is NULL;

). SELECT 'The 'Il nome 11 'team has' 11 number- of-players 11' players and receives a discount of 'Il discount percent.' 'TEAM Information' From teams WHERT discount is NOT NULL'

Port 2: Logical operators: AND

1. SELECT ctr-number "customer humber", address-line_1 "street Address", zip-code "postol col FROM customers_addresses WHERE city="Line-pool" AND address-line_2 = "starford"; Part 3: Logical operators: OR

1. SELECT ctr-number " (ustoner humber", address-line-1 " street Address", zip-code" Postol code") from customers -address where city="liverpool" or address-line-2.=" starford";

Part 4: Logical operators: Not Equal to

1. SELECT ctr-number "customer Number", address.line_1 "street Address", zip-code "postal code" FROM customers-addresses where city not like "Liverpool";

Part 5

- 1. SELECT name "Tigam Name", number-of-players "Number of players" FROM teams order by name;
- 2. SELECT rame "Team Name", number_ of -players "Number of players" From teams
- 3. SELECT name "Team Name", I number of players " number of players") FROM Teams

Port 6

PORT 1: TOP-N-ANALYSIS

1. SELECT first-norme | 1 , 11 | last-name "customer Name"

FROM (

SELECT first_name, last_name, FROM customers ORDER BY ctr-number 1

WHERE ROWNUM (53;

Part 2: Using a Substitution variable

1. SELECT first-name "first Name", last-name in Last-Name" prom Sales-representatives
WHERE commission - rate = : input-commission-rate
ORDER BY last-name;

Part 1

Part 1: Retrieving all columns from a table

1. customers

| | | ⊕ EMAIL | ∳ FIRST_NAME | | ₱ PHONE_NUMBER | | | | UOYALTY_CARD_NUMBER |
|---|--------|-----------------------------|--------------|------------|----------------|--------|--------|--------|---------------------|
| 1 | c00001 | bob.thornberry@heatmail.com | Robert | Thornberry | 01234567898 | 150 | sr01 | t001 | (null) |
| 2 | c00012 | Jjones@freemail.com | Jennifer | Jones | 01505214598 | 0 | (null) | (null) | 1c1015 |
| 3 | c00101 | unknown@here.com | John | Doe | 03216547808 | 987.5 | sr01 | t002 | (null) |
| 4 | c00103 | MurciaA@globaltech.com | Andrew | Murcia | 07715246890 | 85 | (null) | (null) | 1c2341 |
| 5 | c01986 | margal87@delphiview.com | Maria | Galant | 01442736589 | 125.65 | sr03 | t003 | (null) |
| 6 | c02001 | brianrog@hootech.com | Brian | Rogers | 01654564898 | 50 | (null) | (null) | 1c4587 |

2. teams

| | ∯ ID | NAME | NUMBER_OF_PLAYERS | |
|---|------|---------|-------------------|--------|
| 1 | t001 | Rockets | 25 | 10 |
| 2 | t002 | Celtics | 42 | 20 |
| 3 | t003 | Rovers | 8 | (null) |
| 4 | t004 | Jets | 10 | 5 |

3.items

| | | NAME | | | | Size | |
|---|------------|-------------|-----------------------------|-----------|--------|--------|-------------|
| 1 | im01101044 | gloves | catcher mitt | clothing | brown | m | i1010230124 |
| 2 | im01101045 | under shirt | top worn under the game top | clothing | white | S | i1010230125 |
| 3 | im01101046 | socks | team socks with emblem | clothing | range | 1 | i1010230126 |
| 4 | im01101047 | game top | team shirt with emblem | clothing | range | m | i1010230127 |
| 5 | im01101048 | premium bat | high quaity basball bat | equipment | (null) | (null) | i1010230128 |

Part 2: Selectng Specifc Columns

| | | | | ∯ EMAIL | ♦ PHONE_NUMBER |
|---|--------|----------|------------|-----------------------------|----------------|
| 1 | c00001 | Robert | Thornberry | bob.thornberry@heatmail.com | 01234567898 |
| 2 | c00012 | Jennifer | Jones | Jjones@freemail.com | 01505214598 |
| 3 | c00101 | John | Doe | unknown@here.com | 03216547808 |
| 4 | c00103 | Andrew | Murcia | MurciaA@globaltech.com | 07715246890 |
| 5 | c01986 | Maria | Galant | margal87@delphiview.com | 01442736589 |
| 6 | c02001 | Brian | Rogers | brianrog@hootech.com | 01654564898 |

2.

| | NAME | NUMBER_OF_PLAYERS |
|---|---------|-------------------|
| 1 | Rockets | 25 |
| 2 | Celtics | 42 |
| 3 | Rovers | 8 |
| 4 | Jets | 10 |

3.

| | ♦ NAME | ♦ DESCRIPTION | <pre></pre> | |
|---|---------------|-----------------------------|-------------|--|
| 1 | gloves | catcher mitt | | |
| 2 | under shirt | top worn under the game top | clothing | |
| 3 | socks | team socks with emblem | clothing | |
| 4 | game top | team shirt with emblem | clothing | |
| 5 | premium bat | high quaity basball bat | equipment | |

Part 2

Part 1: Using Arithmetic Operators

1.

| | | LAST_NAME | | |
|---|----------|------------|--------|---|
| 1 | Robert | Thornberry | 150 | 12.5 |
| 2 | Jennifer | Jones | 0 | 0 |
| 3 | John | Doe | 987.5 | 82.2916666666666666666666666666666666666 |
| 4 | Andrew | Murcia | 85 | 7.08333333333333333333333333333333333333 |
| 5 | Maria | Galant | 125.65 | 10.47083333333333333333333333333333333333 |
| 6 | Brian | Rogers | 50 | 4.1666666666666666666666666666666666666 |

| 1 | Robert | Thornberry | c00001 | 150 | 145 |
|---|----------|------------|--------|--------|--------|
| 2 | Jennifer | Jones | c00012 | 0 | -5 |
| 3 | John | Doe | c00101 | 987.5 | 982.5 |
| 4 | Andrew | Murcia | c00103 | 85 | 80 |
| 5 | Maria | Galant | c01986 | 125.65 | 120.65 |
| 6 | Brian | Rogers | c02001 | 50 | 45 |

Part 2 : Using Column Aliases

1.

| | ♦ First Name | | ⊕ Balance | ♦ Monthly Repayments |
|---|--------------|------------|------------------|---|
| 1 | Robert | Thornberry | 150 | 12.5 |
| 2 | Jennifer | Jones | 0 | 0 |
| 3 | John | Doe | 987.5 | 82.29166666666666666666666666666666666666 |
| 4 | Andrew | Murcia | 85 | 7.08333333333333333333333333333333333333 |
| 5 | Maria | Galant | 125.65 | 10.4708333333333333333333333333333333333 |
| 6 | Brian | Rogers | 50 | 4.1666666666666666666666666666666666 |

Part 3: Using Literal Character Strings

1.

| | Team Information | | | | | | | | | | | | |
|---|------------------|-------|-----|-------|-------|------|-----------|-------|-----------|-----|------------|-------|----------|
| 1 | The | Rocke | ts | team | has | 25 | players | and | receives | a | discount | of10 | percent. |
| 2 | The | Celti | CS | team | has | 42 | players | and | receives | a | discount | of20 | percent. |
| 3 | The | Rover | 3 1 | eam 1 | nas 8 | 3 p. | layers a | nd re | eceives a | d: | iscount of | f per | cent. |
| 4 | The | Jets | tea | m ha | 3 10 | pla | avers and | d red | ceives a | dis | scount of | 5 per | cent. |

Part 3

Part 1: Using the WHERE Clause

1.

| 4 | CTR_NUMBER | ♦ EMAIL | FIRST_NAME | \$ LAST_NAME | PHONE_NUMBER | CURRENT_BALANCE | | TEM_ID | UOYALTY_CARD_NUMBER |
|-----|------------|-------------------------|------------|--------------|--------------|-----------------|------|--------|---------------------|
| 1 0 | :01986 | margal87@delphiview.com | Maria | Galant | 01442736589 | 125.65 | sr03 | t003 | (null) |

2.

| | _ | | | |
|---|--------|------------|--------|--|
| | | | | |
| 1 | Robert | Thornberry | c00001 | |
| 2 | John | Doe | c00101 | |
| 3 | Maria | Galant | c01986 | |

| | ∯ ID | ♦ ODR_DATE | ♦ ODR_TIME |
|---|-----------|------------|------------|
| 1 | or0101250 | 17-APR-17 | 17-APR-17 |
| 2 | or0101350 | 24-MAY-17 | 24-MAY-17 |
| 3 | or0101425 | 28-MAY-17 | 28-MAY-17 |
| 4 | or0101681 | 02-JUN-17 | 02-JUN-17 |
| 5 | or0101750 | 18-JUN-17 | 18-JUN-17 |

Part 2: Range Conditions: BETWEEN Operator

1.

| | ∯ ID | | ∜ UNITS | |
|---|-------------|------|----------------|--|
| 1 | i1010230125 | 7.99 | 250 | |
| 2 | i1010230126 | 5.24 | 87 | |

Part 3: Membership Conditions: IN Operator

1.

| | ∯ ID | | ⊕ UNITS | |
|---|-------------|-----|----------------|--|
| 1 | i1010230124 | 2.5 | 100 | |

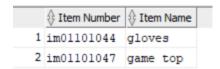
Part 4: Membership Conditions: NOT IN Operator

1.

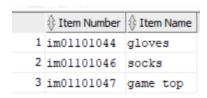
| | ∯ I D | ∯ COST | ⊕ UNITS |
|---|--------------|--------|----------------|
| 1 | i1010230125 | 7.99 | 250 |
| 2 | i1010230126 | 5.24 | 87 |
| 3 | i1010230127 | 18.95 | 65 |
| 4 | i1010230128 | 97.46 | 8 |

Part 5: Pattern Matching: LIKE Operator

1.



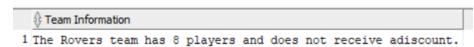
Part 6: Pattern Matching: Combining Wildcard Characters with the LIKE Operator



Part 4

Part 1: Using the NULL Conditions

1.



2.

| | ∯ Team Information |
|---|--|
| 1 | The Rockets team has 25 players and receives a discount of 10 percent. |
| 2 | The Celtics team has 42 players and receives a discount of 20 percent. |
| 3 | The Jets team has 10 players and receives a discount of 5 percent. |

Part 2: Logical Operators: AND

1.

| | Customer Number | ∯S | treet Address | | | |
|---|-----------------|----|---------------|------|---------|--|
| 1 | c00001 | 17 | Gartsquare | Road | LP89JHK | |

Part 3: Logical Operators: OR

1.

| | | Street Address | |
|---|--------|-----------------|--------------|
| 1 | c00001 | 17 Gartsquare R | Road LP89JHK |
| 2 | c00001 | 63 Acacia Drive | LP83JHR |

Part 4: Logical Operators: NOT Equal To

| | ♦ Customer Number | | |
|---|-------------------|----------------------|---------|
| 1 | c00101 | 54 Ropehill Crescent | ST45AGV |
| 2 | c01986 | 36 Watercress Lane | JP23YTH |

Part 5

1.

| | ∜ Team Name | Number of Players |
|---|--------------------|-------------------|
| 1 | Celtics | 42 |
| 2 | Jets | 10 |
| 3 | Rockets | 25 |
| 4 | Rovers | 8 |

2.

| | ♦ Team Name | Number of Players |
|---|--------------------|-------------------|
| 1 | Celtics | 42 |
| 2 | Rockets | 25 |
| 3 | Jets | 10 |
| 4 | Rovers | 8 |

3.

| | ∯ Team Name | Number of Players |
|---|-------------|-------------------|
| 1 | Rovers | 8 |
| 2 | Rockets | 25 |
| 3 | Jets | 10 |
| 4 | Celtics | 42 |

Part 6

Part 1: TOP-N-ANALYSIS

1.

| 1 | Robert Thornberry |
|---|-------------------|
| 2 | Jennifer Jones |
| 3 | John Doe |

Part 2 : Using a Substitution Variable

1.The input is 5

| 1 | Barry | Speed |
|---|----------|--------|
| 2 | Victoria | Wright |