

DB Lab 3

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SECTION: 02

SQL 3 DML 2 PART 1

part 1

1. SELECT * FROM customers;

2. SELECT * FROM teams;

3. SELECT * FROM items;

part 2

~~* SELECT ctr_number, first_name, last_name, email, phone_number
FROM customers;~~1. SELECT ctr_number, first_name, last_name, email, phone_number
FROM customers;

2. SELECT name, number_of_players FROM teams;

3. SELECT name, description, category FROM items;

SQL 3 DML 2 PART 2

part 1: using arithmetic operators

1. SELECT first_name, last_name, current_balance, current_balance / 12
FROM customers;2. SELECT first_name, last_name, ctr_number, current_balance, current_balance - 5.00
FROM customers;

3. If the value is 0, some of the customer will have negative balance.

part 2: using column aliases

1. SELECT first_name "First Name", last_name "Last Name", current_balance
"Balance", current_balance/12 "Monthly Repayments"
FROM customers;

part 3: using literal character strings

1. SELECT 'The ' || name || ' team has ' || number_of_players || ' players and ~~etc~~
receives a discount at ' || discount || ' percent.'
FROM teams;

2. the discount value for the last team is null.

SQL3 DM12 PART 3

part 1: using the WHERE clause

1. SELECT * FROM customers
WHERE ctr_number = 'C01986';
2. SELECT first_name "First Name", last_name "Last Name", ctr_number
"Customer Number" FROM customers
WHERE current_balance > 100;
3. SELECT id "Order id", odr_date "Order date", odr_time "Order time"
FROM orders
Where odr_date < '28 May 2019';

part 2: range condition between operator

1. SELECT id "Inventory id", cost "Cost", units "Units"
FROM inventory-list
WHERE cost BETWEEN 3.00 AND 15.00;

part 3: membership condition IN operator.

1. SELECT id "Inventory id", cost "Inventory Cost", units "Number of Units"
FROM inventory-list
WHERE ~~etc~~ units IN ('50', '100', '150', '200');

part 4: NOT IN operator

```
1. SELECT id "Inventory id", cost "Inventory Cost", units "Number of Units"
FROM inventory-list
WHERE units NOT IN ('50', '100', '150', '200');
```

part 5: Like operator

```
1. SELECT itm_number "Item Number", name "Name"
FROM items
WHERE name LIKE '9%';
```

part 6: Pattern matching

```
1. SELECT itm_number "Item Number", name "Name"
FROM items
WHERE name LIKE '%0%';
```

SQL 3 DML2 Part 4

part 1: NULL conditions

```
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;
```

```
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: Logic operators AND

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

part 3: logical operator OR

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

part 4: logical operator NOT equal to

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

SQL 3 DML2 PART 5

part 1: ORDER BY

```
1. SELECT name "Team Name", am number_of_players "Number of Players"
FROM teams
ORDER BY name;
```

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

```
3. SELECT name "Team Name", number_of_players "Players"
FROM teams
ORDER BY name DESC
```

SQL 3 DML2 PART 6

part 1: TOP-N-ANALYSIS

```
1. SELECT first_name || ' ' || last_name AS "Customer Name" FROM customers
ORDER BY ctr_number
FETCH FIRST 3 ROWS ONLY;
```

part 2: substitution variable

```
1. ACCEPT commission_rate NUMBER PROMPT 'Enter Sales Commission Rate: '
SELECT first_name "First Name", last_name "Last Name" FROM sales_representatives
WHERE commission_rate = commission_rate ORDER BY last_name;
```