SQL 3 : DML 2

Exercice 1

Part 1 : Retrieving all columns from a table

1. SELECT * FROM CUSTOMERS;

2. SELECT * FROM TEAMS;

3. SELECT * FROM ITEMS;

Part 2 : Selecting Specific Columns

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;

Exercise 2

Part 1 : Using Arithmetic Operations

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. The current balance will return negative value which result to inaccurate data stored.

PART 2

1. SELECT first_nam "First Name", last_name "Last Name", current_balance "Balance",
   current_balance +12 "Monthly Repayments"
   FROM CUSTOMERS;

PART 3

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

2. Because the discount for the last team is a NULL value

Exercise 3

PART 1:

1. SELECT * FROM CUSTOMERS
   WHERE ctr_number = 'c_01986';

2. SELECT first_name "First Name", last_name "Last Name", ctr_number "Number"
   FROM CUSTOMERS
   WHERE current_balance >100;

3. SELECT id "Order ID, odr_date "Date", odr_time "Time"
   FROM ORDERS
   WHERE odr_date < TO_DATE ('28-May-2019', 'DD-MM-YYYY');

PART 2:

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

PART 3

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

PART 4

1. SELECT id "Inventory ID", cost "Cost", units "Number of units"
   FROM inventory_list
   WHERE unit NOT IN (50, 100, 150, 200);

PART 5

1. SELECT itm_number "Item Number", name "Name"
   FROM ITEMS
   WHERE name LIKE 'g%';

PART 6

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

Exercise 4

PART 1:

1. SELECT 'The ' || name || ' team has ' || number_of_players || ' players and does not 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

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

PART 3:

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

PART 4:

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

Exercise 5

1. SELECT name "Team Name", number_of_players "Total Players"
   FROM TEAMS
   ORDER BY name;

2. SELECT name "Team Name", number_of_players "Total Players"
   FROM TEAMS
   ORDER BY 'number_of_players' DESC;

3. SELECT name "Team Name", number_of_players "Total Players"
   FROM TEAMS
   ORDER BY "Team Name" DESC;

Exercise 6

Part 1

1. SELECT ROWNUM AS "Customer"
first_name || ' ' || last_name AS "Customer Name"
FROM CUSTOMERS
WHERE ROWNUM < 4;

PART 2

1. SELECT first_name "First Name", last_name "Last Name"
FROM SALES_REPRESENTATIVES
WHERE commission_rate = :new_rate
ORDER BY last_name;