SECD2523 DATABASE SEMESTER 1 (20232024)

TITLE:

LAB 3 DML 2

LECTURER'S NAME:
ROZILAWATI BINTI DOLLAH @ MD ZAIN

SECTION:10

BIL	NAME	MATRIC NO
1.	THAREHNEY A/P MAHATHEVAN	B23CS0075

SQL 3 - DML2 PART 1

PART 1

1) SELECT * FROM customers;
2) SELECT * FROM teams;
3) SELECT * FROM items;

PART 2

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 – DML2 PART 2

PART 1

1) SELECT FIRST_NAME, LAST_NAME, CURRENT_BALANCE, CURRENT_BALANCE / 12 FROM customers;
2) SELECT FIRST_NAME, LAST_NAME, CURRENT_BALANCE, CURRENT_BALANCE – 5 FROM customers;
3) This issue is the scheme doesn't consider if customers already paid or owe money. If someone has a negative balance or below 5.00 will be a problem to give a gift card.

PART 2

1) SELECT FIRST_NAME "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 receive a discount of' ||DISCOUNT|| 'percent.' AS "Team Information" FROM teams;
2) It is because the value is NULL/0.

SQL 3 – DML2 PART 3

PART 1

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 < TO_DATE ('28-05-2019', 'YYYY-MM-DD');

PART 2

1) SELECT ID "Inventory ID", COST "cost", UNITS "Units"
   FROM INVENTORY_LIST
   WHERE COST BETWEEN 3.00 AND 15.00;

PART 3

1) SELECT ID "Inventory ID", COST "Cost", UNITS "Units"
   FROM INVENTORY_LIST
   WHERE UNITS IN (50,100,150,200);

PART 4

1) SELECT ID "Inventory ID", COST "Cost", UNITS "Units"
   FROM INVENTORY_LIST
   WHERE UNITS NOT IN (50,100,150,200);

PART 5

1) SELECT ITM_NUMBER "Item Number", NAME "Item Name"
   FROM ITEMS
   WHERE NAME LIKE 'g%';

PART 6

1) SELECT ITM_NUMBER "Item Number", NAME "Item Name"
   FROM ITEMS
   WHERE NAME LIKE '%0%';

SQL 3 – 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;

2) SELECT 'The' ||NAME|| 'team has' ||NUMBER_OF_PLAYERS|| 'players and receive 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 CUSTOMER_ADDRESSES
   WHERE CITY = 'LIVERPOOL' AND ADDRESS_LINE_2 = 'Starford';

PART 3

1) SELECT CTR_NUMBER "Customer Number", ADDRESS_LINE_1 "Street Address", ZIP_CODE "Postal Code"
   FROM CUSTOMER_ADDRESSES
   WHERE CITY = 'Liverpool' OR ADDRESS_LINE_2 = 'Starford';

PART 4

1) SELECT CTR_NUMBER "CustomerNumber", ADDRESS_LINE_1 "Street Address", ZIP_CODE "Postal Code"
FROM CUSTOMER_ADDRESSES
WHERE CITY NOT IN ('Liverpool');

SQL 3 – DML2 PART 5

1) SELECT NAME "NAME", NUMBER_OF_PLAYERS "Number of Players"
FROM teams
ORDER BY NAME;

2) SELECT NAME "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

1) SELECT ROWNUM AS "Highest Customer Number", FIRST_NAME || '' ||, LAST_NAME "Customer Name"
FROM (SELECT FIRST_NAME, LAST_NAME
        FROM customers
        ORDER BY CTR_NUMBER)
WHERE ROWNUM <= 3;

PART 2

2) SELECT FIRST_NAME AS "First Name", LAST_NAME AS "Last Name", COMMISSION_RATE AS "Commission Rate"
FROM SALES_REPRESENTATIVES
WHERE COMMISSION_RATE = commission_rate
ORDER BY LAST_NAME;