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CPS510 - A5

By: Isaac Martin, Bowie Chau, Hachi Ndu

Instructor: Dr. S. B. Tajali

TA: George Lopez

Section #: 06

Lab Number: 5

Oct 23, 2024

Shell Script 1:

Gather all customers with membership and group them by the price point of each membership

```
GNU nano 4.8
sqlplus64 "b7chau/01239245@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle12c.scs.ryerson.ca)
(Port=1521))(CONNECT_DATA=(SID=orcl12c)))"<<EOF
SELECT
   m.subscriptionCharge,
   COUNT(c.customerID) AS num_customers
FROM
   membership m
JOIN
   payment p ON m.membershipID = p.customerID
JOIN
   customer c ON c.customerID = p.customerID
GROUP BY
  m.subscriptionCharge
ORDER BY
   num_customers DESC;
EXIT;
EOF
```

Shell Script 2:

List the top 2 movies based on rating and show the movie name, director and rating

```
GNU nano 4.8

sqlplus64 "b7chau/01239245@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle12c.scs.ryerson.ca)
(Port=1521))(CONNECT_DATA=(SID=orcl12c)))"<<EOF

SELECT

movieName,
movieDirector,
movieRating

FROM
movie

ORDER BY
movieRating DESC

FETCH FIRST 2 ROWS ONLY;

EXIT;
EOF
```

```
b7chau@europa:~/databases510$ ./b.sh
SQL*Plus: Release 12.1.0.2.0 Production on Tue Oct 22 23:34:30 2024
Copyright (c) 1982, 2014, Oracle. All rights reserved.
Last Successful login time: Tue Oct 22 2024 23:34:03 -04:00
Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production With the Partitioning, Oracle Label Security, OLAP, Advanced Analytics and Real Application Testing options
SQL> SQL> 2 3 4 5 6 7 8
MOVIENAME
MOVIEDIRECTOR
                                                             MOVIERATING
CREED
Ryan Coogler
                                                                        10
Avatar The Way Of The Water
James Cameron
SQL> SQL> Disconnected from Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, Oracle Label Security, OLAP, Advanced Analytics and Real Application Testing options
```

Shell Script 3

Fetch all customers who have not yet made a payment

```
GNU nano 4.8
sqlplus64 "b7chau/01239245@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle12c.scs.ryerson.ca)
(Port=1521))(CONNECT_DATA=(SID=orcl12c)))"<<EOF

SELECT
    customerID, firstName, lastName
FROM
    customer
WHERE
    customerID IN (
        SELECT customerID
        FROM customer
        MINUS
        SELECT customerID
        FROM payment
    );

EXIT;
EOF</pre>
C.sh

Select customerle.

(Rot customer)

FROM payment

C.sh

Select customerle.

Customerle.
```

```
b7chau@europa:~/databases510$ ./c.sh
SQL*Plus: Release 12.1.0.2.0 Production on Wed Oct 23 00:01:25 2024
Copyright (c) 1982, 2014, Oracle. All rights reserved.
Last Successful login time: Wed Oct 23 2024 00:01:18 -04:00
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, Oracle Label Security, OLAP, Advanced Analytics
and Real Application Testing options
SQL> SQL> 2 3 4
                          5 6 7 8 9 10 11 12
CUSTOMERID FIRSTNAME
LASTNAME
         3 Some
Body
SQL> SQL> SQL> Disconnected from Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, Oracle Label Security, OLAP, Advanced Analytics and Real Application Testing options
b7chau@europa:~/databases510$
```

Shell Script 4

Get the average cost of movies based on genre

```
GNU nano 4.8

sqlplus64 "b7chau/01239245@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle12c.scs.ryerson.ca)
(Port=1521))(CONNECT_DATA=(SID=orcl12c)))"<<EOF

SELECT

movieGenre,
AVG(moviePrice) AS avg_price,
COUNT(movieID) AS total_movies

FROM
movie
GROUP BY
movieGenre
ORDER BY
avg_price DESC;

EXIT;
EOF
```

```
b7chau@europa:~/databases510$ ./d.sh
SQL*Plus: Release 12.1.0.2.0 Production on Wed Oct 23 00:03:46 2024
Copyright (c) 1982, 2014, Oracle. All rights reserved.
Last Successful login time: Wed Oct 23 2024 00:01:25 -04:00
Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, Oracle Label Security, OLAP, Advanced Analytics and Real Application Testing options
                                                   9 10
SQL> SQL>
                                              8
MOVIEGENRE
                                                         AVG_PRICE TOTAL_MOVIES
Family
                                                        12.3266667
Action
                                                              9.99
SQL> SQL> SQL> Disconnected from Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, Oracle Label Security, OLAP, Advanced Analytics and Real Application Testing options
b7chau@europa:~/databases510$
```

Shell Script 5

List the total amount spent by each customer

```
sqlplus64 "b7chau/01239245@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle12c.scs.ryerson.ca)
 (Port=1521))(CONNECT_DATA=(SID=orcl12c)))"<<EOF
SELECT_
    c.customerID,
    c.firstName,
    c.lastName,
    SUM(m.moviePrice) AS total_spent
FROM
    customer c
JOIN
    payment p ON c.customerID = p.customerID
JOIN.
    movie m ON p.paymentID = m.movieID -- assuming paymentID links to movie purchases
    c.customerID, c.firstName, c.lastName
ORDER BY
    total_spent DESC;
EXIT;
EOF
```

```
b7chau@europa:~/databases510$ ./e.sh
SQL*Plus: Release 12.1.0.2.0 Production on Wed Oct 23 00:08:22 2024
Copyright (c) 1982, 2014, Oracle. All rights reserved.
Last Successful login time: Wed Oct 23 2024 00:03:46 -04:00
Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, Oracle Label Security, OLAP, Advanced Analytics and Real Application Testing options
                           5 6 7 8 9 10 11 12 13 14 15
SQL> SQL> 2 3
CUSTOMERID FIRSTNAME
LASTNAME
                                                        TOTAL_SPENT
         2 Jane
                                                                  15
Doe
         1 John
Bosko
                                                              10.99
SQL> SQL> SQL> Disconnected from Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
with the Partitioning, Oracle Label Security, OLAP, Advanced Analytics and Real Application Testing options b7chau@europa:~/databases510$
```

UNIX Interactive Menu for DROP, CREATE, INSERT, SELECT

```
CONN_STRING="b7chau/01239245@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle12c.scs.ryerson.ca)(Port=1521))(CONNECT_DATA=(SID=orcl12c)))
        # Enter command (Drop, Create, Insert)
echo "Please enter a command (Drop, Create, Insert, Selecit)"
echo "Type 'exit' to quit"
read -p "> " u_input
u_input=$(echo "$u_input" | tr '[:upper:]' '[:lower:]') # Convert to lowercase
          if [[ "$u_input" == "drop" ]]; then
    read -p "Enter Table to Drop: " to_drop
                    echo "Dropping table: $to_drop"
sqlplus64 -s "$CONN_STRING" << EOF
DROP TABLE $to_drop;
EOF
        elif [[ "$u_input" == "create" ]]; then
    read -p "Enter Table Name: " table_name
    read -p "Enter Values (separated by spaces): " values
# Do create table stuff here
echo "Creating table: $table_name with values: ${values[@]}"
sqlplus64 -s "$CONN_STRING" << EOF
CREATE TABLE $table_name ($values);</pre>
EOF
        elif [[ "$u_input" == "insert" ]]; then
    read -p "Enter Table Name: " table_name
    read -p "Enter Values (separated by spaces): " values
# Do insert table stuff here
    echo "Inserting into table: $table_name values: ${values[@]}"
    sqlplus64 -s "$CONN_STRING" <<EOF
    INSERT INTO $table_name VALUES ($values);
    COMMIT.</pre>
                    COMMTT:
                    EXIT;
EOF
         elif [[ "$u_input" == "select"]]; then
    read -p "Enter Table Name: " table_name
    read -p "Enter Values (separated by spaces): " values
# Do query stuff here
    sqlplus64 -s "$CONN_STRING" <<EOF
    SELECT $values FROM $table_name VALUES;
EYIT:</pre>
EOF
          elif [[ "$u_input" == "exit" ]]; then
    echo "Exiting..."
                    exit 0
```

```
b7chau@europa:~/databases510$ ./menu.sh
Please enter a command (Drop, Create, Insert, Select)
Type 'exit' to quit
create
Enter Table Name: test
Enter Values (separated by spaces): t1 INTEGER, t2 VARCHAR(30)
Creating table: test with values: t1 INTEGER, t2 VARCHAR(30)
Table created.
Please enter a command (Drop, Create, Insert, Select)
Type 'exit' to quit
insert
Enter Table Name: test
Enter Values (separated by spaces): 1, 'test'
Inserting into table: test values: 1, 'test'
1 row created.
Commit complete.
Please enter a command (Drop, Create, Insert, Select)
Type 'exit' to quit
> select
Enter Table Name: test
Enter Values (separated by spaces): *
        T1 T2
         1 test
Please enter a command (Drop, Create, Insert, Select)
Type 'exit' to quit
drop
Enter Table to Drop: test
Dropping table: test
Table dropped.
Please enter a command (Drop, Create, Insert, Select)
Type 'exit' to quit
> exit
Exiting...
b7chau@europa:~/databases510$ 🕳
```

