Menu

```
#!/bin/sh
# README ##############
# 1. Set necessary env variables for the scs.oracle credentials # export MOON_USERNAME="" # export MOON_PASSWORD=""
# 2. Run script with bash as shown below
# bash menu.sh
# END ################
Pause()
  read -n1 -r -p "Press any key to continue..."
MainMenu()
while [ "$CHOICE" != "START" ]
       clear
      echo "=
      echo "| Oracle All Inclusive Tool |"
echo "| Main Menu - Select Desired Operation(s): |"
echo "| <CTRL-Z Anytime to Enter Interactive CMD Prompt> |"
      echo " $IS_SELECTEDM M) View Manual"
echo " "
      echo " $IS_SELECTED1 1) Drop Tables"
echo " $IS_SELECTED2 2) Create Tables"
echo " $IS_SELECTED3 3) Populate Tables"
echo " $IS_SELECTED4 4) Query Tables"
echo " $IS_SELECTED4 5) Manual Entry"
      echo " $IS_SELECTEDX X) Force/Stop/Kill Oracle DB" echo " "
      echo " $IS_SELECTEDE E) End/Exit"
echo "Choose: "
       read CHOICE
       if [ "$CHOICE" = "0" ]
```

```
echo "Nothing Here"
    Pause
    elif [ "$CHOICE" = "1" ]
        bash drop_tables.sh
            Pause
    elif [ "$CHOICE" = "2" ]
    bash create_tables.sh
    Pause elif [ "$CHOICE" = "3" ]
    then
        bash populate_tables.sh
    Pause
elif [ "$CHOICE" = "4" ]
    then
    Pause
elif [ "$CHOICE" = "5" ]
then
        bash manual.sh
    Pause
elif [ "$CHOICE" = "E" ]
    then
       exit
    fi
    done
#--COMMENTS BLOCK--
# Main Program
#--COMMENTS BLOCK--
ProgramStart()
    # StartMessage
    while [ 1 ]
    do
       MainMenu
    done
ProgramStart
```

Create Tables

```
sqlplus64 "$MOON_USERNAME/$MOON_PASSWORD@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryers
```

Output:

```
Oracle All Inclusive Tool |
 Main Menu - Select Desired Operation(s): |
| <CTRL-Z Anytime to Enter Interactive CMD Prompt> |
 M) View Manual
 1) Drop Tables
  2) Create Tables
 3) Populate Tables
  4) Query Tables
 5) Manual Entry
 X) Force/Stop/Kill Oracle DB
 E) End/Exit
Choose:
create_tables.sh: line 122: warning: here-document at line 1 delimited by end-of-file (wanted `EOF')
SQL*Plus: Release 12.1.0.2.0 Production on Wed Oct 25 14:11:56 2023
Copyright (c) 1982, 2014, Oracle. All rights reserved.
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
SQL> SQL> 2
                        5
                                  7
                                          9 10 11 12 13 14 15 16
                             6
Table created.
SQL> SQL> SQL> SQL>
                        3
                                  5
                                                8
                                                     9
                                                        10
Table created.
SQL> SQL> SQL> 2
                         4
                             5
                                           8
                                                9
                                                    10
                                                        11 12 13
Table created.
SQL> SQL> SQL> SQL> 2
                                                7
                                                         9
Table created.
SQL> SQL> SQL> SQL> SQL>
                             2
                                  3
Table created.
SQL> SQL> SQL> 2
                    3
                                           8
Table created.
SQL> SQL> SQL> 2 3 4
                             5
                                                    10 11 12 13
Table created.
SQL> SQL> SQL> SQL> SQL> SQL>
                                                        7
Table created.
SQL> SQL> SQL> 2 3 4
                           5
Table created.
SQL> SQL> Disconnected from Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
```

With the Partitioning, OLAP,_Data Mining and Real Application Testing options Press any key to continue...

Populate Tables

```
*alplus64 "$MOON_USERNAME/$MOON_PAS$WORD@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryers INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ VALUES (22, 'Liam', 'Robinson', '123 Pine St', 'Chicago', 'IL', '60601', 'USA', TO_DATE('197-01-05
                                                                                                                                                                                                                                                                                                                                                                                    INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ
 INSERT INTO Users

INSERT INTO Users (UserID, UserFirstName, UserLastName, UserLastName, UserLastName, UserLastName, UserLastName, UserLastName, UserNastName, UserNastNam
 INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ VALUES (2, 'Eva', 'Garcia', '234 Birch Ln', 'Boston', 'MA', '02101', 'USA', TO_DATE('1994-11-03', 'VALUES (24, 'Oliver', 'Miller', '987 Maple Ln', 'San Francisco', 'CA', '94101', 'USA', TO_DATE('1994-11-03', 'VALUES (24, 'Oliver', 'Miller', '987 Maple Ln', 'San Francisco', 'CA', '94101', 'USA', TO_DATE('1994-11-03', 'VALUES (24, 'Oliver', 'Miller', '987 Maple Ln', 'San Francisco', 'CA', '94101', 'USA', TO_DATE('1994-11-03', 'VALUES (24, 'Oliver', 'Miller', '987 Maple Ln', 'San Francisco', 'CA', '94101', 'USA', TO_DATE('1994-11-03', 'VALUES (24, 'Oliver', 'Miller', '987 Maple Ln', 'San Francisco', 'CA', '94101', 'USA', TO_DATE('1994-11-03', 'VALUES (24, 'Oliver', 'Miller', '987 Maple Ln', 'San Francisco', 'CA', '94101', 'USA', TO_DATE('1994-11-03', 'VALUES (24, 'Oliver', 'Miller', '987 Maple Ln', 'San Francisco', 'CA', '94101', 'USA', TO_DATE('1994-11-03', 'VALUES (24, 'Oliver', 'Miller', '987 Maple Ln', 'San Francisco', 'CA', '94101', 'USA', TO_DATE('1994-11-03', 'VALUES (24, 'Oliver', 'Miller', '987 Maple Ln', 'San Francisco', 'CA', '94101', 'USA', TO_DATE('1994-11-03', 'VALUES (24, 'Oliver', 'Miller', '987 Maple Ln', 'San Francisco', 'CA', '94101', 'USA', TO_DATE('1994-11-03', 'VALUES (24, 'Oliver', 'Miller', '987 Maple Ln', 'San Francisco', 'CA', '94101', 'USA', TO_DATE('1994-11-03', 'VALUES (24, 'Oliver', 'Miller', '987 Maple Ln', 'San Francisco', 'CA', '94101', 'USA', TO_DATE('1994-11-03', 'VALUES (24, 'Oliver', 'Miller', '987 Maple Ln', 'San Francisco', 'CA', '94101', 'USA', 'ND_DATE('1994-11-03', 'VALUES (24, 'Oliver', 'Miller', '987 Maple Ln', 'San Francisco', 'GA', '94101', 'ND_DATE('1994-11-03', 'VALUES (24, 'Oliver', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '94101', '
INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ VALUES (2, 'Main Branch', '123 Oak Street', 'Cityville', 'Statel', '12345', 'Canada', '1234567890')
VALUES (5, 'Sarah', 'Smith', '456 Oak St', 'Seattle', 'WA', '98101', 'USA', TO_DATE('1985-09-10', 'TNSEPT INTO Home, 'User St. 'Company of the Company 
 INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserCity, UserRegion, UserStreetName, UserStreetName, UserCity, UserRegion, UserStreetName, UserCity, UserRegion, UserStreetName, UserStreetName, UserCity, UserRegion, UserStreetName, UserStreetName, UserStreetName, UserCity, UserRegion, UserZ VALUES (3, 'Suburb Branch', '789 Maple Lane', 'Villagetown', 'State1', '67890', 'Canada', '55511122 VALUES (6, 'Emma', 'Wilson', '789 Elm Rd', 'Chicago', 'IL', '60601', 'USA', TO_DATE('1989-12-25', 'USA'), 'USA', 
 INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ — #### EMPLOYEEES #######
VALUES (7, 'James', 'Anderson', '567 Cedar Ave', 'New York', 'NY', '10001', 'USA', TO_DATE('1980-03
 VALUES (), 'James', 'Anderson', '56/ Cedar Ave', 'New York', 'NY', '19091', 'USA', 'U_UAIE('1908-03 INSERT INTO Employees (UserID, BranchID, EmployeeMonthlySalary, EmployeeSINNumber, EmployeePermissi INSERT INTO Users (UserID, UserIstName, UserLastName, UserStreetName, UserCity, UserRegion, UserS VALUES (1, 1, 5000.00, '123456789', 'Admin Access'); VALUES (8, '01ivia', 'Johnson', '123 Maple Dr', 'San Francisco', 'CA', '94301', 'USA', 'T_DATE('190
 INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ VALUES (9, 'William', 'Taylor', '456 Pine Rd', 'Houston', 'TX', '77801', 'USA', TO_DATE('1983-08-29)

TMSERT INTO Employees (UserID, BranchID, EmployeeMonthlySalary, EmployeeSINNumber, EmployeePermissi VALUES (9, 'William', 'Taylor', '456 Pine Rd', 'Houston', 'TX', '77801', 'USA', TO_DATE('1983-08-29)

TMSERT INTO Employees (UserID, BranchID, EmployeeSINNumber, EmployeePermissi VALUES (2, 2, 4800.50, '987654321', 'Manager Access');

TMSERT INTO Employees (UserID, BranchID, EmployeeSINNumber, EmployeePermissi VALUES (2, 2, 4800.50, '987654321', 'Manager Access');
 INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ VALUES (10, 'Sophia', 'Brown', '987 Birch Ln', 'Denver', 'CO', '88201', 'USA', TO_DATE('1996-10-18')

THERET INTO Employees (UserID, BranchID, EmployeeMonthlySalary, EmployeeSINNumber, EmployeePermissi VALUES (10, 'Sophia', 'Brown', '987 Birch Ln', 'Denver', 'CO', '88201', 'USA', TO_DATE('1996-10-18')

THERET INTO User (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZity, UserRegion, UserZity, 'Sales Access');

THERET INTO User (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZity, UserRegion, UserZity, UserRegion, UserZity, 'Sales Access');
 INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ VALUES (4, 3, 5200.25, '135792468', 'Customer Support Access');
VALUES (11, 'Mason', 'Davis', '345 Elm Ave', 'Phoenix', 'AZ', '85001', 'USA', TO_DATE('1909-02-14',
 INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ VALUES (5, 2, 4980.00, '864209753', 'Inventory Access');
VALUES (12, 'Ava', 'Moore', '234 Oak Rd', 'San Diego', 'CA', '92101', 'USA', TO_DATE('1992-05-22',
 INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ VALUES (6, 1, 4808.75, '753198246', 'Sales Access');
VALUES (13, 'Liam', 'Johnson', '789 Cedar St', 'Austin', 'TX', '73381', 'USA', TO_DATE('1998-87-81')
 INSERT INTO Users (UserID, UserFirstName, UserLastName, UserCteetName, UserCity, UserRegion, UserZ VALUES (14, 'Grace', 'Smith', '567 Maple Ln', 'Philadelphia', 'PA', '19101', 'USA', TO_DATE('1987-1
 INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ VALUES (15, 'Sophie', 'Tremblay', '123 Rue Maple', 'Montreal', 'Quebec', 'H1A 1A1', 'Canada', TO_AA
 INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ VALUES (16, 'Liam', 'Wilson', '456 King St', 'Toronto', 'Ontario', 'MSV 1E5', 'Canada', TO_DATE('19
 INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ VALUES (17, 'Isabella', 'Gagnon', '789 Rue Elm', 'Quebec City', 'Quebec', 'G1A 1A1', 'Canada', TO_D
 INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ VALUES (18, 'Noah', 'Johnson', '234 Rue Cedar', 'Ottawa', 'Ontario', 'K1P 1A1', 'Canada', TO_DATE('
                                                                                                                                                                                                                                                                                                                                           TO_DATE(' INSERT INTO Customers (UserID, CustomerDriversLicenseNumber) VALUES (11, 'DL123456789');
 INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ VALUES (19, 'Olivia', 'Smith', '567 King St', 'Vancouver', 'British Columbia', 'V6C 1E5', 'Canada',
                                                                                                                                                                                                                                                                                                                                              'Canada', INSERT INTO Customers (UserID, CustomerDriversLicenseNumber)
 VALUES (19, 'Olivia', 'Smith', '50/ Aing St., Values (12, Olivia', 'Smith', 'Smith',
 VALUES (12, 'Exnair, 'MEA', 'Martinez', '789 Birch Rd', 'Miami', 'FL', '33101', 'USA', TO_DATE('1988-08-15', INSERT INTO Customers (UserID, CustomerDriversLicenseNumber) VALUES (14, 'DL135792468');
```

VALUES (13, 'DL246813579'); INSERT INTO Users (UserID, UserFirstName, UserLastName, UserStreetName, UserCity, UserRegion, UserZ VALUES (21, 'Mia', 'Martinez', '789 Birch Rd', 'Miami', 'FL', '33101', 'USA', TO_DATE('1988-08-15', INSERT INTO Customers (UserID, CustomerDriversLicenseNumber) VALUES (14. 'DL135792468'): INSERT INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate) VALUES (6, 1, 1, 900, 'ST678UV'); INSERT INTO Customers (UserID, CustomerDriversLicenseNumber) VALUES (15, 'DL864209753'); INSERT INTO Customers (UserID, CustomerDriversLicenseNumber)
VALUES (16, 'DL753198246'); INSERT INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate) VALUES (7, 3, 2, 1100, 'WX901YZ'); INSERT INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate) VALUES (8, 2, 3, 750, 'AB234CD'); INSERT INTO Customers (UserID, CustomerDriversLicenseNumber)
VALUES (17, 'DL639427185'); INSERT INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate) VALUES (9, 1, 4, 1400, 'DE567FG'); INSERT INTO Customers (UserID, CustomerDriversLicenseNumber)
VALUES (18, 'DL492861375'); INSERT INTO Customers (UserID, CustomerDriversLicenseNumber)
VALUES (19, 'DL918273645'); INSERT INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate) VALUES (10, 3, 5, 1800, 'GH890IJ'); INSERT INTO Customers (UserID, CustomerDriversLicenseNumber) VALUES (20, 'DL375926184'); INSERT INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate) VALUES (11, 1, 1, 950, 'KL123MN'); INSERT INTO Customers (UserID, CustomerDriversLicenseNumber) INSERT INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate) VALUES (21, 'DL654321123'): INSERT INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate) VALUES (13, 1, 3, 780, 'ST678VW'); INSERT INTO Customers (UserID, CustomerDriversLicenseNumber) VALUES (22, 'DL987774321'); INSERT INTO Customers (UserID, CustomerDriversLicenseNumber)
VALUES (23, 'DL123253789'); INSERT INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate) VALUES (14, 3, 4, 1480, 'XZ901YZ'); INSERT INTO Customers (UserID, CustomerDriversLicenseNumber)
VALUES (24, 'DL567890123'); INSERT INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate) VALUES (15, 2, 5, 1900, 'AB345CE'); ##### VEHTCLE TYPES ###### - Sample data for Bookings table - Manuary Villock | This manuary villock | Th INSERT INTO VehicleTypes (VehicleTypeID, VehicleTypeModel, Vehicle INSERT INTO VehicleTypes (VehicleTypeID, VehicleTypeModel, Vehicle INSERT INTO VehicleTypes (VehicleTypeID, VehicleTypeModel, Vehicle INSERT INTO VehicleTypes (VehicleTypeID, VehicleTypeModel, Vehicle ##### VEHICLES ###### Sample data for PaymentDetails table INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate) INSERT INTO PaymentDetails VALUES (1, 15, 1234567890123456, 123, TO_DATE('2025-12-31', 'YYYY-MM-DD')); VALUES (1, 1, 1, 1000, 'AB123CD'); INSERT INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate) VALUES (2, 2, 1200, 'DE456FG'); - Sample data for Transactions table (additional 5 transactions) INSERT INTO Transactions VALUES (1, 150.00, TO_DATE('2023-09-22', 'YYYY-MM-DD'), 1, 1); INSERT INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate)
VALUES (3, 1, 3, 800, 'GH789IJ'); INSERT INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate) VALUES (4, 3, 4, 1500, 'KL012MN');

> exit; EOF

SERT INTO Vehicles (VehicleID, BranchID, VehicleTypeID, VehicleMileage, VehicleLicensePlate)

Output:

1 row created.

```
[hdincer@elara:~/cps510-lab04$ bash menu.sh
  Oracle All Inclusive Tool |
  Main Menu - Select Desired Operation(s): |
 | <CTRL-Z Anytime to Enter Interactive CMD Prompt> |
  M) View Manual
  1) Drop Tables
  2) Create Tables
  3) Populate Tables
  4) Query Tables
  5) Manual Entry
  X) Force/Stop/Kill Oracle DB
  E) End/Exit
Choose:
SQL*Plus: Release 12.1.0.2.0 Production on Wed Oct 25 14:12:44 2023
Copyright (c) 1982, 2014, Oracle. All rights reserved.
Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
SQL> SQL> SQL>
1 row created.
SQL> SQL> 2
```

```
1 row created.
```

SQL> SQL> 2 1 row created.

SQL> SQL> 2

1 row created.

SQL> SQL> 2

1 row created.

SQL> SQL> 2 1 row created.

SQL> SQL> 2 1 row created.

SQL> SQL> 2 1 row created.

SQL> SQL> SQL> SQL> 2 1 row created.

SQL> SQL> 2

1 row created.

SQL> SQL> 2 1 row created.

SQL> SQL> 2

1 row created.

SQL> SQL> 2 1 row created.

SQL> SQL> SQL> 2 1 row created.

SQL> SQL> SQL> 2 1 row created.

Drop Tables

```
sqlplus64 "$MOON_USERNAME/$MOON_PASSWORD@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(Host=oracle.scs.ryers DROP TABLE Employees;
DROP TABLE VehicleTypes;
DROP TABLE Branchs;
DROP TABLE Transactions ;
DROP TABLE PaymentDetails ;
                                                                                                                                           DROP TABLE Users ;
DROP TABLE Bookings;
DROP TABLE Vehicles;
                                                                                                                                           exit;
DROP TABLE Customers ;
                                                                                                                                           FOF
```

```
Output:
[hdincer@elara:~/cps510-lab04$ bash menu.sh
  Oracle All Inclusive Tool |
  Main Menu - Select Desired Operation(s): |
 | <CTRL-Z Anytime to Enter Interactive CMD Prompt> |
  M) View Manual

    Drop Tables

   2) Create Tables
   3) Populate Tables
   4) Query Tables
  5) Manual Entry
  X) Force/Stop/Kill Oracle DB
  E) End/Exit
 Choose:
 SQL*Plus: Release 12.1.0.2.0 Production on Wed Oct 25 14:14:28 2023
 Copyright (c) 1982, 2014, Oracle. All rights reserved.
 Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
 With the Partitioning, OLAP, Data Mining and Real Application Testing options
 SQL> SQL>
 Table dropped.
 SQL> SQL> Disconnected from Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
 With the Partitioning, OLAP, Data Mining and Real Application Testing options
 Press any key to continue...
```

ADVANCED QUERIES

1. This query finds branches with more than 3 active bookings and retrieves their information.

```
SELECT b.BranchID, b.BranchName, COUNT(*) AS NumberOfBookings
FROM Branchs b
JOIN Employees e ON b.BranchID = e.BranchID
JOIN Bookings bk ON e.UserID = bk.EmployeeID
WHERE bk.BookingIsActive = 1
GROUP BY b.BranchID, b.BranchName
HAVING COUNT(*) > 3;
```

Output:

SQL> SQL>	2 3	4	5	6	7			
BRANCHID	BRANCHNAME						NUMBEROFBOOKINGS	
2	Main Branc	h					3	

2. This query uses MINUS to retrieve customers who have not made any bookings:

```
SELECT u.UserID, u.UserFirstName, u.UserLastName
FROM Users u
JOIN Customers c ON u.UserID = c.UserID
MINUS
SELECT b.CustomerID, NULL ,NULL
FROM Bookings b;
```

Output:

SQL> SQL> S USERID	SQL> 2 USERFIRSTN		4	5	6 USERLASTNAME
11	Mason				Davis
12	Ava				Moore
13	Liam				Johnson
14	Grace				Smith
15	Sophie				Tremblay
16	Liam				Wilson
17	Isabella				Gagnon
18	Noah				Johnson
19	Olivia				Smith
20	Ethan				Hall
21	Mia				Martinez
USERID	USERFIRSTN	IAME			USERLASTNAME
22	Liam				Robinson
23	Emma				Davis
24	Oliver				Miller

14 rows selected.

3.Retrieves High Salary Employees and Frequent Customers from Users, Customers, and Employees table and Union the result. (Significant Users)

```
SELECT 'High-Salary Employees' AS Category, Employees. UserID,
Users.UserFirstName, Users.UserLastName
FROM Employees
JOIN Users ON Employees.UserID = Users.UserID
WHERE Employees. EmployeeMonthlySalary > 4000
UNION
SELECT 'Frequent Customers' AS Category, Customers. UserID,
Users.UserFirstName, Users.UserLastName
FROM Customers
JOIN Users ON Customers.UserID = Users.UserID
WHERE Customers.UserID IN (
    SELECT Bookings.CustomerID
   FROM Bookings
    GROUP BY Bookings.CustomerID
    HAVING COUNT(*) >= 2
);
```

Output:

SQL> SQL> 2 3 4 CATEGORY		5 7 8 9 USERFIRSTNAME	10	11	12	13	14
USERLASTNAME							
Frequent Customers Tremblay	- 15	Sophie					
Frequent Customers Johnson	18	Noah					
High—Salary Employees Doe	1	John					
CATEGORY	USERID	USERFIRSTNAME					
USERLASTNAME							
High-Salary Employees Garcia	2	Eva					
High—Salary Employees Martin	3	David					
High—Salary Employees Lee	4	Frank					
CATEGORY	USERID	USERFIRSTNAME					
USERLASTNAME							
High-Salary Employees Smith	- 5	Sarah					
High—Salary Employees Wilson	6	Emma					
High—Salary Employees Anderson	7	James					
CATEGORY	USERID	USERFIRSTNAME					
CATEGORY	USERID	USERFIRSTNAME					
		USERFIRSTNAME Olivia					
USERLASTNAME High-Salary Employees	 - 8						

4. LIST ALL VEHICLES THAT HAVE NEVER BEEN BOOKED:

SELECT v.VehicleID, v.VehicleLicensePlate
FROM Vehicles v
MINUS
SELECT DISTINCT b.VehicleID, v.VehicleLicensePlate
FROM Bookings b
JOIN Vehicles v ON b.VehicleID = v.VehicleID;

Output:

10 rows selected.

15 AB345CE

5. AMOUNT OF VEHICLES CURRENTLY BOOKED OUT BY A BRANCH

SELECT b.BranchName, COUNT(v.VehicleID) AS TotalVehiclesBooked
FROM Branchs b
JOIN Vehicles v ON b.BranchID = v.BranchID
JOIN Bookings bk ON v.VehicleID = bk.VehicleID
WHERE bk.BookingIsActive = 1
GROUP BY b.BranchName;

Output:

SQL> SQL> SQL>	2	3	4	5	6	
BRANCHNAME						TOTALVEHICLESBOOKED
Main Branch						2
Downtown Branch						2
Suburb Branch						1

6.A list of Users that are employees that have not made any bookings.

```
SELECT u.UserID, u.UserFirstName, u.UserLastName, u.UserEmail
FROM Users u
JOIN Employees e ON u.UserID = e.UserID
WHERE NOT EXISTS (
    SELECT 1
    FROM Bookings b
    WHERE b.EmployeeID = e.UserID
);
Output:
 SQL> SQL> SQL> 2 3 4 5 6 7 8
    USERID USERFIRSTNAME
                                   USERLASTNAME
 USEREMAIL
         1 John
                                   Doe
 johndoe@email.com
        10 Sophia
                                   Brown
 sophia.brown@email.com
         6 Emma
                                   Wilson
 emma.wilson@email.com
    USERID USERFIRSTNAME
                                   USERLASTNAME
 USEREMAIL
         7 James
                                   Anderson
 james.anderson@email.com
         4 Frank
                                   Lee
 frank.lee@email.com
         9 William
                                   Taylor
 william.taylor@email.com
 6 rows selected.
```