# CSCE - 5350 - Fundamentals of Database System

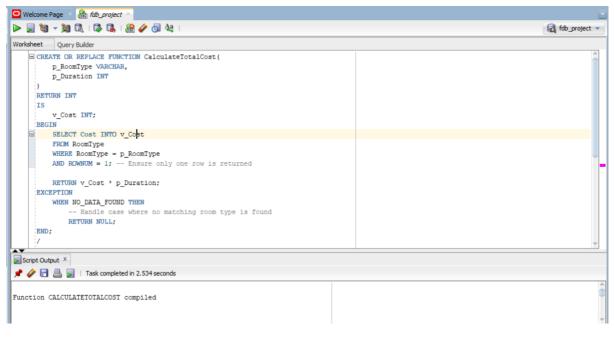
(PL/SQL Code)

Group - 18

# **STORED FUNCTIONS:**

1. To find the total cost based on room type and duration of stay

```
CREATE OR REPLACE FUNCTION CalculateTotalCost(
 p_RoomType VARCHAR,
 p_Duration INT
)
RETURN INT
IS
  v_Cost INT;
BEGIN
 SELECT Cost INTO v_Cost
 FROM RoomType
  WHERE RoomType = p_RoomType
  AND ROWNUM = 1; -- Ensure only one row is returned
 RETURN v_Cost * p_Duration;
EXCEPTION
  WHEN NO_DATA_FOUND THEN
    -- Handle case where no matching room type is found
    RETURN NULL;
END;
```

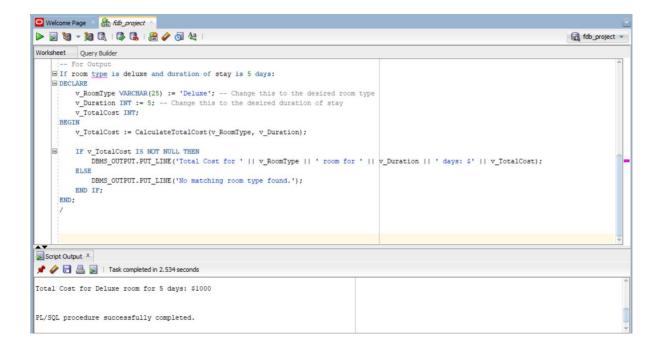


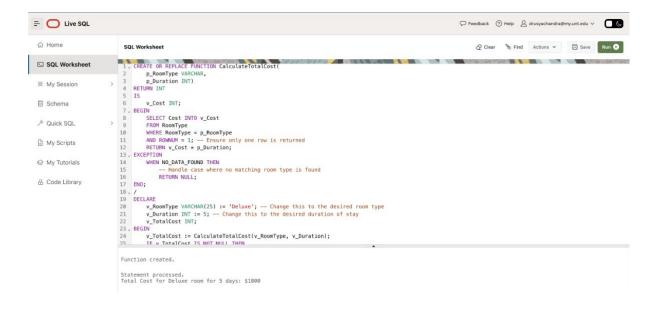
-- For Output

If room type is deluxe and duration of stay is 5 days:

## **DECLARE**

END;





2. function to determine a guest's reward point total based on the amount they have booked. Depending on the hotel's policy, the computation may differ. For example, one point may be earned for every dollar spent, or points may be earned based on the length of stay and kind of accommodation.

## CREATE OR REPLACE FUNCTION calculateRewardPoints(

total\_amount INT,

duration INT,

```
room_type VARCHAR

)

RETURN INT

AS

reward_points INT;

BEGIN

IF room_type = 'Deluxe' THEN

reward_points := total_amount / 10;

ELSE

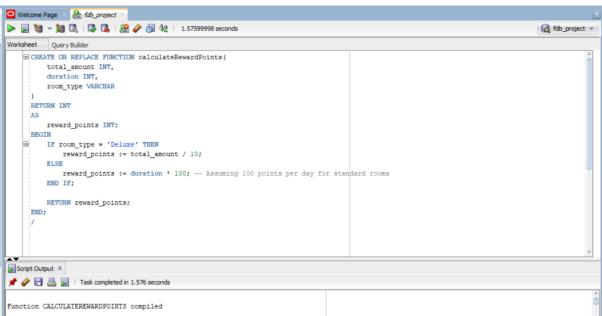
reward_points := duration * 100; -- Assuming 100 points per day for standard rooms

END IF;

RETURN reward_points;

END;

/
```



-- Find the reward points of a customer who spent 1500 USD, and room type is standard and duration is 3 days.

# **DECLARE**

```
v_TotalAmount INT := 1500; -- Example total amount spent
```

v\_Duration INT := 3; -- Example duration of stay

- v\_RoomType VARCHAR(25) := 'Standard'; -- Example room type
- v\_RewardPoints INT;

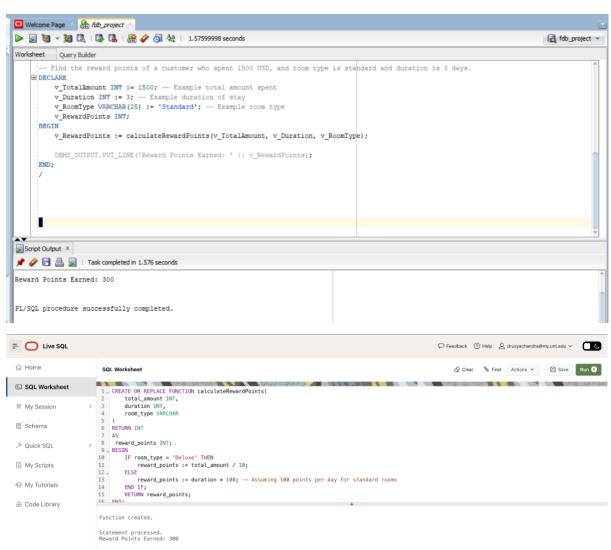
## **BEGIN**

v\_RewardPoints := calculateRewardPoints(v\_TotalAmount, v\_Duration, v\_RoomType);

DBMS\_OUTPUT\_LINE('Reward Points Earned: ' || v\_RewardPoints);

END;

/



3. checkRoomAvailability: This function checks the availability of rooms in a hotel for a given check-in and check-out date range.

CREATE OR REPLACE FUNCTION checkRoomAvailability( hotel id INT,

```
checkin_date DATE,
  checkout_date DATE
)
RETURN BOOLEAN
AS
BEGIN
  DECLARE
    room_count INT;
  BEGIN
    SELECT COUNT(*) INTO room_count
    FROM Rooms r
    WHERE r.Hotel_ID = hotel_id
    AND NOT EXISTS (
      SELECT 1
      FROM Bookings b
      WHERE b.Hotel_ID = r.Hotel_ID
      AND b.Room_Number = r.RoomNumber
      AND (
        (checkin_date BETWEEN b.Checkin AND b.Checkout)
        OR (checkout_date BETWEEN b.Checkin AND b.Checkout)
        OR (b.Checkin BETWEEN checkin_date AND checkout_date)
      )
    );
    RETURN room_count > 0; -- Return TRUE if room_count > 0, FALSE otherwise
  EXCEPTION
    WHEN NO_DATA_FOUND THEN
      RETURN TRUE; -- No bookings found, all rooms are available
  END;
END;
```

```
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                                                                                                                                               fdb_project •
Worksheet Query Builder
          hotel_id INT,
checkin_date DATE,
          checkout_date DATE
      BEGIN
          DECLARE
              room_count INT;
              SELECT COUNT(*) INTO room_count
              FROM Rooms I
               WHERE r.Hotel_ID = hotel_id
              AND NOT EXISTS (
                   FROM Bookings b
                   WHERE b.Hotel_ID = r.Hotel_ID
                   AND b.Room_Number = r.RoomNumber
                       (checkin_date BETWEEN b.Checkin AND b.Checkout)
                       OR (checkout date BETWEEN b.Checkin AND b.Checkout)
Script Output X
📌 🧼 🖥 🚇 星 | Task completed in 1.892 seconds
Function CHECKROOMAVAILABILITY compiled
```

-- call the function

#### **DECLARE**

```
v_HotelID INT := 1234; -- Example hotel ID
```

v\_CheckinDate DATE := TO\_DATE('2024-04-01', 'YYYY-MM-DD'); -- Example checkin date

```
v_CheckoutDate DATE := TO_DATE('2024-04-05', 'YYYY-MM-DD'); -- Example
checkout date
```

v\_RoomsAvailable BOOLEAN;

#### **BEGIN**

```
v_RoomsAvailable := checkRoomAvailability(v_HotelID, v_CheckinDate,
v_CheckoutDate);
```

```
IF v_RoomsAvailable THEN
```

DBMS\_OUTPUT\_LINE('Rooms are available for the specified dates.');

#### **ELSE**

DBMS\_OUTPUT\_LINE('No rooms available for the specified dates.'); END IF;

END;

```
Welcome Page And Interpret And
   fdb_project *
  Worksheet Query Builder
                    DECLARE
                                            v_HotelID INT := 1234; -- Example hotel ID
                                          v_CheckinDate DATE := TO_DATE('2024-04-01', 'YYYY-MM-DD'); -- Example check-in date
v_CheckoutDate DATE := TO_DATE('2024-04-05', 'YYYY-MM-DD'); -- Example checkout date
                                           v_RoomsAvailable BOOLEAN;
                                            v_RoomsAvailable := checkRoomAvailability(v_HotelID, v_CheckinDate, v_CheckoutDate);
                                                              DBMS_OUTPUT.PUT_LINE('Rooms are available for the specified dates.');
                                          ELSE
                                                             DBMS_OUTPUT.PUT_LINE('No rooms available for the specified dates.');
                                          END IF:
   Script Output ×
   📌 🧽 🔠 遏 | Task completed in 1.892 seconds
   Rooms are available for the specified dates.
PL/SQL procedure successfully completed.
```



4. Function to generate a unique booking confirmation code for each booking made by concatenating the current date with a randomly generated alphanumeric string.

CREATE OR REPLACE FUNCTION generateBookingConfirmationCode

RETURN VARCHAR

AS

confirmation\_code VARCHAR(20);

**BEGIN** 

```
confirmation\_code := TO\_CHAR(SYSDATE, 'YYYYMMDD') \parallel DBMS\_RANDOM.STRING('X', 5);
```

RETURN confirmation\_code;

END;

/

-- Output

#### **DECLARE**

v\_ConfirmationCode VARCHAR(20);

Statement processed. Generated Booking Confirmation Code: 20248327FUA93

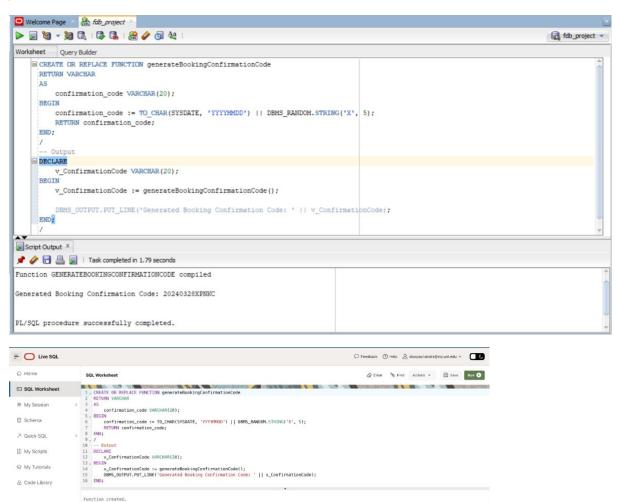
# **BEGIN**

v\_ConfirmationCode := generateBookingConfirmationCode();

DBMS\_OUTPUT\_LINE('Generated Booking Confirmation Code: '  $\parallel$  v\_ConfirmationCode);

END;

/



5. checkMaintenanceNeeded: Function to check whether maintenance is needed for a specific room in a hotel based on the duration since its last maintenance.

```
CREATE OR REPLACE FUNCTION checkMaintenanceNeeded(
    last_maintenance_date DATE,
    current_date DATE
)

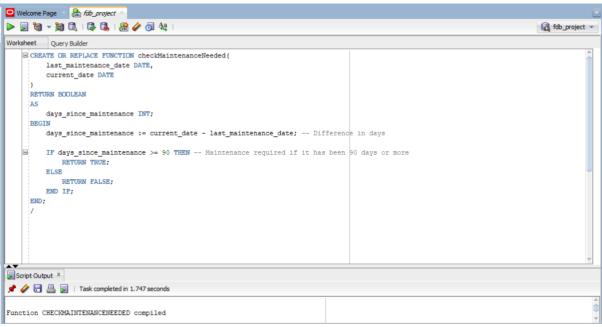
RETURN BOOLEAN
AS
    days_since_maintenance INT;

BEGIN
    days_since_maintenance := current_date - last_maintenance_date; -- Difference in days

IF days_since_maintenance >= 90 THEN -- Maintenance required if it has been 90 days or more
    RETURN TRUE;

ELSE
    RETURN FALSE;
END IF;

END;
//
```



-- To display result

# **DECLARE**

v\_LastMaintenanceDate DATE := TO\_DATE('2023-01-01', 'YYYY-MM-DD'); --

Example last maintenance date

- $v\_CurrentDate\ DATE := TO\_DATE('2023-04-01',\ 'YYYY-MM-DD');\ --\ Example\ current\ date$ 
  - v MaintenanceNeeded BOOLEAN;

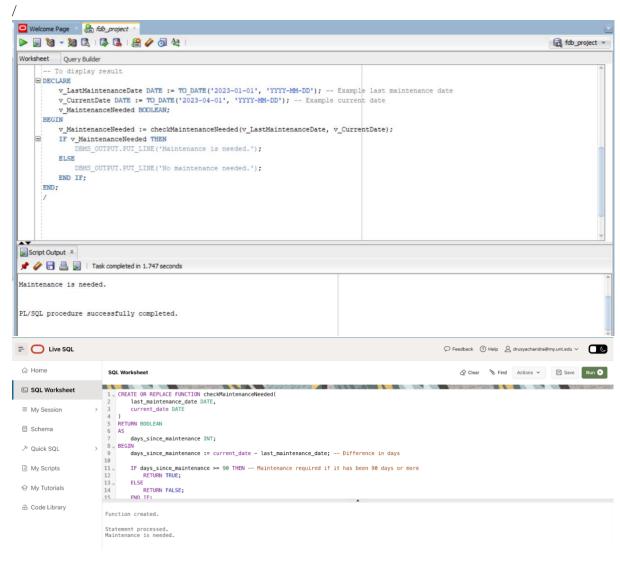
### **BEGIN**

v\_MaintenanceNeeded := checkMaintenanceNeeded(v\_LastMaintenanceDate,

v\_CurrentDate);

IF v\_MaintenanceNeeded THEN

```
DBMS_OUTPUT.PUT_LINE('Maintenance is needed.');
ELSE
DBMS_OUTPUT.PUT_LINE('No maintenance needed.');
END IF;
END;
```



# **STORED PROCEDURES:**

1. UpdateGuestPhoneNumberProcedure: This stored procedure updates the phone number of a guest based on the provided guest ID.

CREATE OR REPLACE PROCEDURE UpdateGuestPhoneNumberProcedure(

```
p_GuestID IN INT,
             p_NewPhoneNumber IN INT
)
AS
BEGIN
             UPDATE Guest
             SET PhoneNumber = p_NewPhoneNumber
             WHERE ID = p\_GuestID;
             COMMIT;
             DBMS_OUTPUT_LINE('Phone number updated successfully for guest ID: ' ||
p_GuestID);
END UpdateGuestPhoneNumberProcedure;
-- Display result
EXEC UpdateGuestPhoneNumberProcedure(p_GuestID =>2001, p_NewPhoneNumber =>
9876543210);
    Welcome Page 

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    Worksheet Query Builder
                      CREATE OR REPLACE PROCEDURE UpdateGuestPhoneNumberProcedure(
                                     p GuestID IN INT,
                        BEGIN
                                     UPDATE Guest
                                      SET PhoneNumber = p_NewPhoneNumber
                                     WHERE ID = p_GuestID;
                       DBMS_OUTPUT.FUT_LINE('Phone number updated successfully for guest ID: ' || p GuestID);
END UpdateGuestPhoneNumberProcedure;
                        -- Display result

EXEC UpdateGuestPhoneNumberProcedure(p_GuestID => 2001, p_NewPhoneNumber => 9876543210);
      Script Output X
       📌 🧽 🖥 🚇 阑 | Task completed in 1.583 seconds
      Procedure UPDATEGUESTPHONENUMBERPROCEDURE compiled
      Phone number updated successfully for guest ID: 2001
     PL/SQL procedure successfully completed.

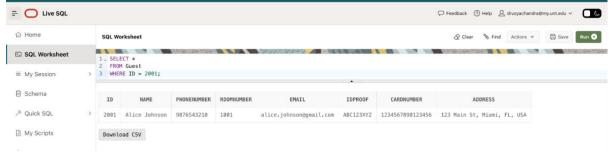
    □ Live SQL
                                                                                                                                                                                                                                                                                                                                                                              SQL Worksheet
   Description | D
                                                                      1. CREATE OR REPLACE PROCEDURE UpdateGuestPhoneNumberProcedure(
2 p_GuestID IN INT,
3 p_NewPhoneNumber IN INT
                                                                             Statement processed. Phone number updated successfully for guest ID: 2001 \,
--CHECK RESULT
```

SELECT \*

#### FROM Guest

WHERE ID = 2001;





2. CancelBookingProcedure: This stored procedure cancels a booking for a guest based on the provided booking ID.

```
CREATE OR REPLACE PROCEDURE CancelBookingProcedure(
    p_BookingID IN INT
)

AS

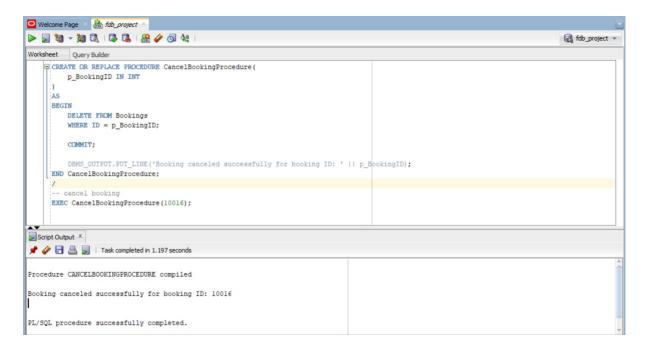
BEGIN
    DELETE FROM Bookings
    WHERE ID = p_BookingID;

COMMIT;

DBMS_OUTPUT.PUT_LINE('Booking canceled successfully for booking ID: '||
p_BookingID);

END CancelBookingProcedure;
/
-- cancel booking

EXEC CancelBookingProcedure(10016);
```





# --CHECK output

## SELECT \*

#### FROM Bookings

WHERE ID = 10016;





3. CheckInGuestProcedure: This stored procedure updates the check-in date for a guest's booking based on the provided booking ID.

```
CREATE OR REPLACE PROCEDURE CheckInGuestProcedure(
    p_BookingID IN INT
)

AS

BEGIN

UPDATE Bookings

SET Checkin = SYSDATE

WHERE ID = p_BookingID;

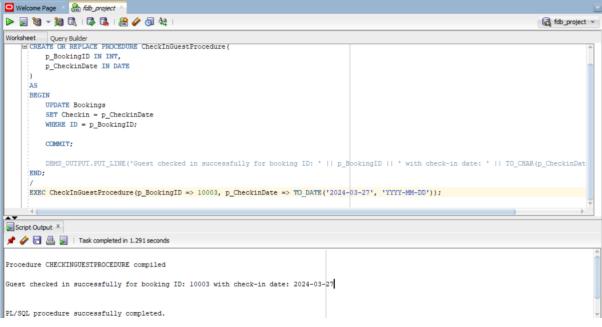
COMMIT;

DBMS_OUTPUT.PUT_LINE('Guest checked in successfully for booking ID: ' || p_BookingID);

END CheckInGuestProcedure;

/

EXEC CheckInGuestProcedure(p_BookingID => 10003, p_CheckinDate => TO_DATE('2024-03-27', 'YYYY-MM-DD'));
```

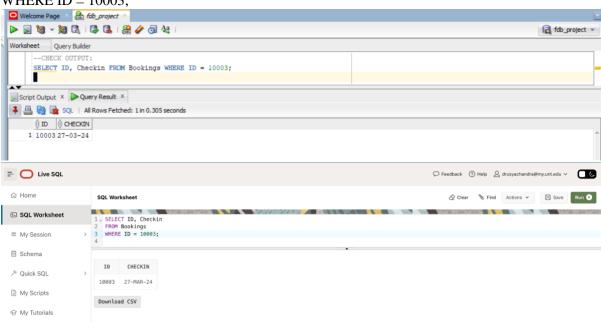




SELECT ID, Checkin

FROM Bookings

WHERE ID = 10003:



4. AssignRoomProcedure: This procedure assigns a room to a guest based on their booking and availability.

```
CREATE OR REPLACE PROCEDURE AssignRoomProcedure(
    p_BookingID IN INT,
    p_RoomNumber OUT INT
)

AS

BEGIN

SELECT RoomNumber INTO p_RoomNumber
FROM Rooms

WHERE Hotel_ID = (SELECT Hotel_ID FROM Bookings WHERE ID = p_BookingID)
```

AND RoomNumber NOT IN (SELECT Room\_Number FROM Bookings WHERE ID <> p\_BookingID);

UPDATE Bookings
SET Room\_Number = p\_RoomNumber
WHERE ID = p\_BookingID;

DBMS\_OUTPUT\_LINE('Room assigned successfully for booking ID: '  $\parallel$  p\_BookingID);

END AssignRoomProcedure;

/

-- display output

**DECLARE** 

v\_BookingID INT := 10009; -- Replace with the actual booking ID

v\_RoomNumber INT;

**BEGIN** 

AssignRoomProcedure(p\_BookingID => v\_BookingID, p\_RoomNumber =>

v\_RoomNumber);

DBMS\_OUTPUT\_LINE('Room assigned for booking ID '  $\parallel$  v\_BookingID  $\parallel$  ': Room '  $\parallel$  v\_RoomNumber);

END;

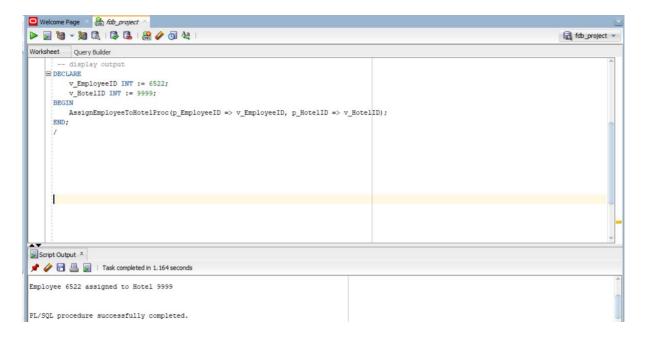
```
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fdb_project >
Worksheet Query Builder
     CREATE OR REPLACE PROCEDURE AssignRoomProcedure(
         p_BookingID IN INT,
          p_RoomNumber OUT INT
      BEGIN
          SELECT RoomNumber INTO p_RoomNumber
          WHERE Hotel_ID = (SELECT Hotel_ID FROM Bookings WHERE ID = p_BookingID)
          AND RoomNumber NOT IN (SELECT Room_Number FROM Bookings WHERE ID <> p_BookingID);
          UPDATE Bookings
          WHERE ID = p_BookingID;
          DBMS OUTPUT. PUT LINE ('Room assigned successfully for booking ID: ' || p Booking ID);
      END AssignRoomProcedure;
Query Result × Script Output ×
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 Procedure ASSIGNROOMPROCEDURE compiled
Welcome Page And And And Andrews
 fdb project
 Worksheet Query Builder
       -- display output
     DECLARE
          v_BookingID INT := 10009; -- Replace with the actual booking ID
           v_RoomNumber INT;
      BEGIN
          AssignRoomProcedure(p_BookingID => v_BookingID, p_RoomNumber => v_RoomNumber);

DBMS_OUTPUT.PUT_LINE('Room assigned for booking ID ' || v_BookingID || ': Room ' || v_RoomNumber);
 Query Result × Script Output ×
 📌 🧽 🔚 📓 📗 | Task completed in 1.015 seconds
 Room assigned successfully for booking ID: 10009
 Room assigned for booking ID 10009: Room 4001
```

5. AssignEmployeeToHotelProc: This procedure assigns an employee to a specific hotel within the chain.

```
CREATE OR REPLACE PROCEDURE AssignEmployeeToHotelProc(
  p_EmployeeID IN INT,
  p_HotelID IN INT
)
AS
BEGIN
  UPDATE Employee
  SET Hotel_ID = p_HotelID
  WHERE ID = p_EmployeeID;
  DBMS_OUTPUT_LINE('Employee ' || p_EmployeeID || ' assigned to Hotel ' ||
p_HotelID);
END AssignEmployeeToHotelProc;
-- display output
DECLARE
  v_EmployeeID INT := 6522;
  v HotelID INT := 9999;
BEGIN
  AssignEmployeeToHotelProc(p_EmployeeID => v_EmployeeID, p_HotelID =>
v_HotelID);
END;
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 Worksheet Query Builder
    CREATE OR REPLACE PROCEDURE AssignEmployeeToHotelProc(
       p_EmployeeID IN INT,
p_HotelID IN INT
       UPDATE Employee
SET Hotel_ID = p_HotelID
       WHERE ID = p_EmployeeID;
       DBMS_OUTPUT.PUT_LINE('Employee' || p_EmployeeID || 'assigned to Hotel '|| p_HotelID);
    END AssignEmployeeToHotelProc;
 Script Output X
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Procedure ASSIGNEMPLOYEETOHOTELPROC compiled
```

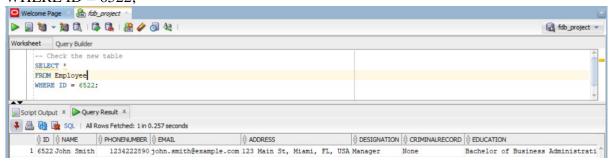


## -- Check the new table

SELECT \*

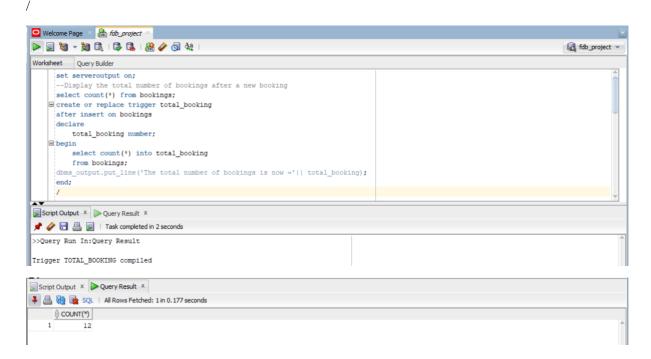
FROM Employee

WHERE ID = 6522;



# **Trigges:**

## 1. Display the total number of bookings after a new booking



# 2. Display the total number of amenities after a new amenity is being added

```
select count(*) from amenities;
create or replace trigger total_amenities
after insert on amenities
declare
total_amenities number;
begin
select count(*) into total_amenities
```

from amenities;

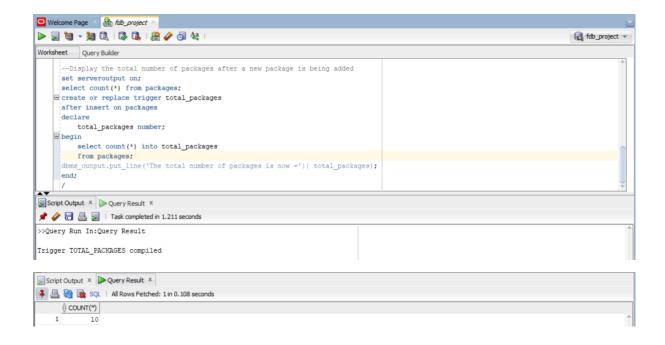
dbms\_output.put\_line('The total number of amenities is now ='|| total\_amenities);

end;

☐ Welcome Page × 🍪 fdb\_project × fdb\_project v Worksheet Query Builder --Display the total number of amenities after a new amenity is being added select count(\*) from amenities;

create or replace trigger total\_amenities after insert on amenities declare total\_amenities number; begin select count(\*) into total\_amenities dbms\_output\_line('The total number of amenities is now ='|| total\_amenities); Script Output × Duery Result × 📌 🧼 🔒 📓 | Task completed in 1.363 seconds >>Query Run In:Query Result Trigger TOTAL\_AMENITIES compiled Script Output × Query Result × 📭 🖺 🙀 🏿 SQL | All Rows Fetched: 1 in 0.214 seconds ⊕ COUNT(\*)

## 3. Display the total number of packages after a new package is being added

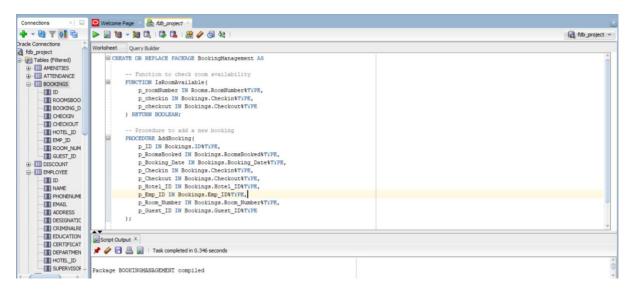


# Package:

# BookingManagement Package with multiple functions and procedures

CREATE OR REPLACE PACKAGE BookingManagement AS

```
-- Function to check room availability
  FUNCTION IsRoomAvailable(
p_roomNumber IN Rooms.RoomNumber%TYPE,
p_checkin IN Bookings.Checkin%TYPE,
p_checkout IN Bookings.Checkout%TYPE
  ) RETURN BOOLEAN;
 -- Procedure to add a new booking
  PROCEDURE AddBooking(
p_ID IN Bookings.ID%TYPE,
p_RoomsBooked IN Bookings.RoomsBooked%TYPE,
p_Booking_Date IN Bookings.Booking_Date%TYPE,
p_Checkin IN Bookings.Checkin%TYPE,
p_Checkout IN Bookings.Checkout%TYPE,
p_Hotel_ID IN Bookings.Hotel_ID%TYPE,
p_Emp_ID IN Bookings.Emp_ID% TYPE,
p_Room_Number IN Bookings.Room_Number%TYPE,
p_Guest_ID IN Bookings.Guest_ID%TYPE
 );
END BookingManagement;
```



### CREATE OR REPLACE PACKAGE BODY BookingManagement AS

```
--- Function to check if the room is available for the given date range
FUNCTION IsRoomAvailable(
p_roomNumber IN Rooms.RoomNumber%TYPE,
p_checkin IN Bookings.Checkin%TYPE,
p_checkout IN Bookings.Checkout%TYPE
) RETURN BOOLEAN IS
v_count INT;
BEGIN
SELECT COUNT(*)
```

FROM Bookings

INTO v\_count

WHERE Room\_Number = p\_roomNumber

AND NOT (Checkout <= p\_checkin OR Checkin>= p\_checkout);

RETURN  $v_{count} = 0$ ;

END IsRoomAvailable;

-- Procedure to add a new booking if the room is available

PROCEDURE AddBooking(

p\_ID IN Bookings.ID%TYPE,

p\_RoomsBooked IN Bookings.RoomsBooked%TYPE,

```
p_Booking_Date IN Bookings.Booking_Date%TYPE,
p_Checkin IN Bookings.Checkin%TYPE,
p_Checkout IN Bookings.Checkout%TYPE,
p_Hotel_ID IN Bookings.Hotel_ID%TYPE,
p_Emp_ID IN Bookings.Emp_ID%TYPE,
p_Room_Number IN Bookings.Room_Number%TYPE,
p_Guest_ID IN Bookings.Guest_ID%TYPE
) IS
BEGIN
```

IF IsRoomAvailable(p\_Room\_Number, p\_Checkin, p\_Checkout) THEN

INSERT INTO Bookings(ID, RoomsBooked, Booking\_Date, Checkin, Checkout, Hotel\_ID, Emp\_ID, Room\_Number, Guest\_ID)

VALUES (p\_ID, p\_RoomsBooked, p\_Booking\_Date, p\_Checkin, p\_Checkout, p\_Hotel\_ID, p\_Emp\_ID, p\_Room\_Number, p\_Guest\_ID);

**ELSE** 

RAISE\_APPLICATION\_ERROR(-20001, 'Room not available for the selected dates.');

END IF;

END AddBooking;

#### END BookingManagement;

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AMENITIES

ATTENDANCE

BOOKINGS

ID

ROOMSBOO Function to check if the room is available for the given date range CONTINUE 18ROOMAVAILABLE (
D\_ROOMAUMBER IN ROOMS.ROOMAUMBERTIPE,
D\_Checkout IN Bookings.CheckintTiPE,
D\_Checkout IN Bookings.Checkout4TiPE
) RETURN BOOLEAN IS
V\_COUNT.INT;
BEGIN FUNCTION IsRoomAvailable( BOOKING\_D BOOKING\_D

CHECKIN

CHECKOUT

HOTEL\_ID

EMP\_ID

ROOM\_NUM

GUEST\_ID SELECT COUNT(\*) INTO v\_count FROM Bookings WHERE Room\_Nus ROM BOOKINGS
HERE Room\_Number = p\_roomNumber
AND NOT (Checkout <= p\_checkin OR Checkin >= p\_checkout); DISCOUNT
DISCOUNT
DISCOUNT EMPLOYEE

II ID

II NAME

II PHONENUME

II EMAIL

II ADDRESS END IsRoomAvailable: Procedure to add a new booking if the room is available III DESIGNATIC p\_ID IN Bookings.ID&TYPE, CRIMINALRE EDUCATION 📌 🧳 🔒 遏 | Task completed in 0.359 seconds Package Body BOOKINGMANAGEMENT compiled

**DECLARE** 

```
v_available BOOLEAN;
BEGIN
v_available := BookingManagement.IsRoomAvailable(1010, TO_DATE('2024-04-01', 'YYYY-MM-
DD'), TO_DATE('2024-04-05', 'YYYY-MM-DD'));
   IF v_available THEN
      DBMS_OUTPUT_LINE('Room is available');
   ELSE
      DBMS_OUTPUT_LINE('Room is not available');
   END IF;
END;
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III DOCKINGS

III DOCKING_DATE
                            DECLARE
                                v_available BOOLEAN;
                                 v_available := BookingManagement.lsRoomAvailable(1010, TO_DATE('2024-04-01', 'YYYY-MM-DD'), TO_DATE('2024-04-05', 'YYYY-MM-DD'));
        BOOKING_DATE

CHECKOUT

HOTEL_ID

EMP_ID

ROOM_NUMBER

DISCOUNT
                                    hms_output.put_line('Room is available');
                                      ns_output.put_line('Room is not available');
                                END IF:
     DISCOUNT EMPLOYEE
        EMPLOYEE

II ID

II NAME

II PHONENUMBER

II EMAIL

II ADDRESS

II DESIGNATION
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         CRIMINALRECORD
        CRIMINAL RECORD

EDUCATION
CERTIFICATIONS
DEPARTMENT
HOTEL_ID
SUPERVISORID
                         PL/SQL procedure successfully completed.
                         Room is available
SET SERVEROUTPUT ON;
BEGIN
BookingManagement.AddBooking(
p_{ID} => 1,
p_RoomsBooked => '1010',
p_Booking_Date => SYSDATE,
p_Checkin => TO_DATE('2024-04-01', 'YYYY-MM-DD'),
p_Checkout => TO_DATE('2024-04-05', 'YYYY-MM-DD'),
p_Hotel_ID => 4567,
p_Emp_ID => 1001,
p_Room_Number => 1001,
```

p\_Guest\_ID => 2001

```
);
COMMIT;
DBMS_OUTPUT.PUT_LINE('Booking added successfully.');
EXCEPTION
WHEN OTHERS THEN
DBMS_OUTPUT.PUT_LINE('Error: ' || SQLERRM);
END;
```



# **INDIVIDUAL CONTRIBUTIONS:**

For this week's project submission, I worked on the stored functions and stored procedures. I assisted in writing queries and their corresponding PL/SQL code and made sure we got the correct outputs for the QueHotel database.

I also assisted with the documentation this week, formatting the document wherever necessary. I also organized timely and productive meetings to discuss the project and update the project wherever necessary.