

Project : PharmaConnect Management System (Phase 4, Phase 5 and Phase 6)

The accompanying PDF file contains all the screenshots related to Phases 4, 5, and 6, including the setup, table creation, data insertion, and verification processes. Additionally, the PDF includes screenshots of the OEM (Oracle Enterprise Manager) Dashboards, providing a visual representation of the data management interface and system functionality.

```
SQL*Plus: Release 21.0.0.0.0 - Production on Wed Nov 20 17:07:22 2024
Version 21.3.0.0.0
```

```
Copyright (c) 1982, 2021, Oracle. All rights reserved.
```

```
Enter user-name: sys as sysdba
Enter password:
```

```
Connected to:
Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0
```

```
SQL> show pdbs;
```

| CON_ID | CON_NAME | OPEN MODE | RESTRICTED |
|--------|-----------|------------|------------|
| 2 | PDB\$SEED | READ ONLY | NO |
| 3 | XEPDB1 | READ WRITE | NO |

```
SQL> select con_id, tablespace_name, file_name from cdb_data_files
2 where con_id = 3;
```

| CON_ID | TABLESPACE_NAME | FILE_NAME |
|--------|-----------------|---|
| 3 | SYSTEM | C:\APP\PC\PRODUCT\21C\ORADATA\XE\XEPDB1\SYSTEM01.DBF |
| 3 | SYSAUX | C:\APP\PC\PRODUCT\21C\ORADATA\XE\XEPDB1\SYSAUX01.DBF |
| 3 | UNDOTBS1 | C:\APP\PC\PRODUCT\21C\ORADATA\XE\XEPDB1\UNDOTBS01.DBF |

| CON_ID | TABLESPACE_NAME | FILE_NAME |
|--------|-----------------|---|
| 3 | USERS | C:\APP\PC\PRODUCT\21C\ORADATA\XE\XEPDB1\USERS01.DBF |

```
SQL> CREATE PLUGGABLE DATABASE wedn_falcon_pharmaconnect admin user wedn_falcon IDENTIFIED BY falcon
2 FILE_NAME_CONVERT = ('C:\app\PC\product\21c\oradata\XE\pdbseed\','C:\app\PC\product\21c\oradata\XE\ wedn_falcon_pharmaconnect\');
```

```
Pluggable database created.
```


```
SQL>
```

```
SQL> ALTER SESSION SET CONTAINER = wedn_falcon_pharmaconnect;  
  
Session altered.
```

```
SQL> ALTER DATABASE OPEN;  
  
Database altered.
```

New / Select Database Connection

| Connection Name | Connection Details |
|------------------|--------------------|
| c | c#bergerac@//l... |
| EmployeeDb | System@//localh... |
| PLSQL_CLASS20... | BE_PLSQLAUCA... |

Name:  Color

Database Type:

User Info Proxy User

Authentication Type:

Username: Role:

Password: ☐ Save Password

Connection Type:

Details Advanced

Hostname:

Port:

☐ SID

☒ Service name:

Status : Success

Worksheet Query Builder

```
CREATE TABLE Insurance_Provider (  
    Insurance_ID NUMBER PRIMARY KEY,  
    Insurance_Company_Name VARCHAR2(100),  
    Coverage_Plan VARCHAR2(200),  
    Phone VARCHAR2(20),  
    Email VARCHAR2(100)  
);
```

Script Output x

Task completed in 0.108 seconds

GRANT CREATE SYNONYM TO wedn_falcon

Error report -

ORA-01031: insufficient privileges

01031. 00000 - "insufficient privileges"

*Cause: An attempt was made to perform a database operation without the necessary privileges.

*Action: Ask your database administrator or designated security administrator to grant you the necessary privileges

Table INSURANCE_PROVIDER created.

Worksheet Query Builder

```
CREATE TABLE Pharmacy (  
    Pharmacy_ID NUMBER PRIMARY KEY,  
    Pharmacy_Name VARCHAR2(100),  
    Pharmacy_Address VARCHAR2(200),  
    Phone VARCHAR2(20),  
    Email VARCHAR2(100)  
);  
  
CREATE TABLE Medication (  
    Medication_ID NUMBER PRIMARY KEY,  
    Name VARCHAR2(100),  
    Description VARCHAR2(500),  
    Manufacturer VARCHAR2(100),  
    Dosage_Form VARCHAR2(50),  
    Strength VARCHAR2(50),  
    Category VARCHAR2(100)  
);
```

Script Output x

Task completed in 0.121 seconds

Table PHARMACY created.

Table MEDICATION created.

pharmaconnect

Worksheet Query Builder

```
CREATE TABLE Patient (  
    Patient_ID NUMBER PRIMARY KEY,  
    First_Name VARCHAR2(100),  
    Last_Name VARCHAR2(100),  
    Email VARCHAR2(100),  
    Phone VARCHAR2(20),  
    Address VARCHAR2(200),  
    Insurance_ID NUMBER,  
    CONSTRAINT fk_patient_insurance FOREIGN KEY (Insurance_ID) REFERENCES Insurance_Provider(Insurance_ID)  
);  
  
CREATE TABLE Inventory_Record (  
    Inventory_Record_ID NUMBER PRIMARY KEY,  
    Pharmacy_ID NUMBER,  
    Medication_ID NUMBER,
```

Script Output x

Task completed in 0.121 seconds

Table PATIENT created.

Table INVENTORY_RECORD created.

```
INSERT INTO Insurance_Provider (Insurance_ID, Insurance_Company_Name, Coverage_Plan, Phone, Email)  
VALUES (1, 'MediCare Plus', 'Full Coverage', '123-456-7890', 'support@medicareplus.com');  
  
INSERT INTO Insurance_Provider (Insurance_ID, Insurance_Company_Name, Coverage_Plan, Phone, Email)  
VALUES (2, 'HealthFirst', 'Partial Coverage', '098-765-4321', 'info@healthfirst.com');  
  
INSERT INTO Insurance_Provider (Insurance_ID, Insurance_Company_Name, Coverage_Plan, Phone, Email)  
VALUES (3, 'WellCare', 'Emergency Only', '555-678-1234', 'help@wellcare.com');  
  
INSERT INTO Patient (Patient_ID, First_Name, Last_Name, Email, Phone, Address, Insurance_ID)  
VALUES (101, 'John', 'Doe', 'john.doe@example.com', '111-222-3333', '123 Elm St, Cityville', 1);  
  
INSERT INTO Patient (Patient_ID, First_Name, Last_Name, Email, Phone, Address, Insurance_ID)  
VALUES (102, 'Jane', 'Smith', 'jane.smith@example.com', '222-333-4444', '456 Oak St, Townsville', 2);  
  
INSERT INTO Patient (Patient_ID, First_Name, Last_Name, Email, Phone, Address, Insurance_ID)  
VALUES (103, 'Alice', 'Johnson', 'alice.j@example.com', '333-444-5555', '789 Pine St, Hamlet', 3);  
  
INSERT INTO Pharmacy (Pharmacy_ID, Pharmacy_Name, Pharmacy_Address, Phone, Email)  
VALUES (201, 'Green Pharmacy', '1101 Maple St, Springfield', '444-555-6666', 'info@greenpharmacy.com');
```

WorksheetQuery Builder

```
INSERT INTO Pharmacy (Pharmacy_ID, Pharmacy_Name, Pharmacy_Address, Phone, Email)
VALUES (202, 'Town Drugstore', '202 Center Ave, Townsville', '555-666-7777', 'info@towndrugstore.com');

INSERT INTO Pharmacy (Pharmacy_ID, Pharmacy_Name, Pharmacy_Address, Phone, Email)
VALUES (203, 'Village Chemist', '303 Market Rd, Hamlet', '666-777-8888', 'service@villagechemist.com');

INSERT INTO Medication (Medication_ID, Name, Description, Manufacturer, Dosage_Form, Strength, Category)
VALUES (301, 'Paracetamol', 'Pain reliever and fever reducer', 'PharmaCo', 'Tablet', '500mg', 'Analgesic');

INSERT INTO Medication (Medication_ID, Name, Description, Manufacturer, Dosage_Form, Strength, Category)
VALUES (302, 'Amoxicillin', 'Antibiotic for bacterial infections', 'HealthCorp', 'Capsule', '250mg', 'Antibiotic');

INSERT INTO Medication (Medication_ID, Name, Description, Manufacturer, Dosage_Form, Strength, Category)
VALUES (303, 'Cetirizine', 'Allergy relief', 'Wellness Ltd.', 'Tablet', '10mg', 'Antihistamine');
```

Script Output x

Task completed in 0.216 seconds

1 row inserted.

1 row inserted.

1 row inserted.

WorksheetQuery Builder

```
VALUES (402, 202, 302, 200, SYSTIMESTAMP);

INSERT INTO Inventory_Record (Inventory_Record_ID, Pharmacy_ID, Medication_ID, Stock_Level, Last_Updated)
VALUES (403, 203, 303, 150, SYSTIMESTAMP);

INSERT INTO Pricing (Pricing_ID, Insurance_ID, Medication_ID, Price, Coverage_Percentage)
VALUES (501, 1, 301, 10.00, 80);

INSERT INTO Pricing (Pricing_ID, Insurance_ID, Medication_ID, Price, Coverage_Percentage)
VALUES (502, 2, 302, 20.00, 50);

INSERT INTO Pricing (Pricing_ID, Insurance_ID, Medication_ID, Price, Coverage_Percentage)
VALUES (503, 3, 303, 15.00, 30);
```

Script Output x

Task completed in 0.216 seconds




1 row inserted.

1 row inserted.

1 row inserted.

| | |
|---|--|
| <pre>INSERT INTO Notification (Notification_ID, Patient_ID, Medication_ID, Notification_Date, Status) VALUES (603, 103, 303, SYSTIMESTAMP, 'Delivered'); INSERT INTO Patient_Medication (Patient_ID, Medication_ID) VALUES (101, 301); INSERT INTO Patient_Medication (Patient_ID, Medication_ID) VALUES (102, 302); INSERT INTO Patient_Medication (Patient_ID, Medication_ID) VALUES (103, 303);</pre> | |
|---|--|

Script Output x

   | Task completed in 0.216 seconds




1 row inserted.

1 row inserted.

1 row inserted.

| | |
|--|--|
| Worksheet Query Builder | |
| <pre>INSERT INTO Pharmacy_Medication (Pharmacy_ID, Medication_ID) VALUES (202, 302); INSERT INTO Pharmacy_Medication (Pharmacy_ID, Medication_ID) VALUES (203, 303); INSERT INTO Medication_Insurance (Medication_ID, Insurance_ID) VALUES (301, 1); INSERT INTO Medication_Insurance (Medication_ID, Insurance_ID) VALUES (302, 2); INSERT INTO Medication_Insurance (Medication_ID, Insurance_ID) VALUES (303, 3);</pre> | |

Script Output x

   | Task completed in 0.216 seconds

1 row inserted.

1 row inserted.

1 row inserted.

```

SELECT p.Patient_ID, p.First_Name, p.Insurance_ID
FROM Patient p
LEFT JOIN Insurance_Provider i ON p.Insurance_ID = i.Insurance_ID
WHERE i.Insurance_ID IS NULL;

SELECT p.Patient_ID, p.First_Name, p.Insurance_ID,
CASE
    WHEN i.Insurance_ID IS NULL THEN 'No Insurance'
    ELSE 'Has Insurance'
END AS Insurance_Status
FROM Patient p
LEFT JOIN Insurance_Provider i ON p.Insurance_ID = i.Insurance_ID;

SELECT m.Medication_ID, m.Name AS Medication_Name, p.Pharmacy_ID, p.Pharmacy_Name, ir.Stock_Level
FROM Medication m
LEFT JOIN Pharmacy_Medication pm ON m.Medication_ID = pm.Medication_ID
LEFT JOIN Pharmacy p ON pm.Pharmacy_ID = p.Pharmacy_ID
LEFT JOIN Inventory_Record ir ON p.Pharmacy_ID = ir.Pharmacy_ID AND m.Medication_ID = ir.Medication_ID

```

Script Output x

Task completed in 0.091 seconds

no rows selected

Worksheet Query Builder

```

SELECT p.Patient_ID, p.First_Name, p.Insurance_ID,
CASE
    WHEN i.Insurance_ID IS NULL THEN 'No Insurance'
    ELSE 'Has Insurance'
END AS Insurance_Status
FROM Patient p
LEFT JOIN Insurance_Provider i ON p.Insurance_ID = i.Insurance_ID;

SELECT m.Medication_ID, m.Name AS Medication_Name, p.Pharmacy_ID, p.Pharmacy_Name, ir.Stock_Level
FROM Medication m
LEFT JOIN Pharmacy_Medication pm ON m.Medication_ID = pm.Medication_ID
LEFT JOIN Pharmacy p ON pm.Pharmacy_ID = p.Pharmacy_ID
LEFT JOIN Inventory_Record ir ON p.Pharmacy_ID = ir.Pharmacy_ID AND m.Medication_ID = ir.Medication_ID

```

Script Output x

Task completed in 0.091 seconds

| PATIENT_ID | FIRST_NAME | INSURANCE_ID | INSURANCE_STA |
|------------|------------|--------------|---------------|
| 101 | John | 1 | Has Insurance |
| 102 | Jane | 2 | Has Insurance |
| 103 | Alice | 3 | Has Insurance |

```

SELECT m.Medication_ID, m.Name AS Medication_Name, p.Pharmacy_ID, p.Pharmacy_Name, ir.Stock_Level
FROM Medication m
LEFT JOIN Pharmacy_Medication pm ON m.Medication_ID = pm.Medication_ID
LEFT JOIN Pharmacy p ON pm.Pharmacy_ID = p.Pharmacy_ID
LEFT JOIN Inventory_Record ir ON p.Pharmacy_ID = ir.Pharmacy_ID AND m.Medication_ID = ir.Medication_ID
ORDER BY m.Medication_ID, p.Pharmacy_ID;

```

Script Output x

Task completed in 0.091 seconds

| MEDICATION_ID | MEDICATION_NAME | PHARMACY_ID | PHARMACY NAME |
|---------------|-----------------|-------------|-----------------|
| 301 | Paracetamol | 201 | City Pharmacy |
| 302 | Amoxicillin | 202 | Town Drugstore |
| 303 | Cetirizine | 203 | Village Chemist |

pharmaconnect~1 | 0.037 seconds

Worksheet | Query Builder

```
SELECT p.Pharmacy_Name, m.Name AS Medication_Name
FROM Pharmacy p
CROSS JOIN Medication m;
```

Script Output x | Task completed in 0.037 seconds

| PHARMACY_NAME | MEDICATION_NAME |
|-----------------|-----------------|
| City Pharmacy | Paracetamol |
| City Pharmacy | Amoxicillin |
| City Pharmacy | Cetirizine |
| Town Drugstore | Paracetamol |
| Town Drugstore | Amoxicillin |
| Town Drugstore | Cetirizine |
| Village Chemist | Paracetamol |
| Village Chemist | Amoxicillin |
| Village Chemist | Cetirizine |

9 rows selected.

Worksheet | Query Builder

```
SELECT p.Pharmacy_Name, m.Name AS Medication_Name
FROM Pharmacy p
INNER JOIN Pharmacy_Medication pm ON p.Pharmacy_ID = pm.Pharmacy_ID
INNER JOIN Medication m ON pm.Medication_ID = m.Medication_ID;
```

Script Output x | Task completed in 0.06 seconds

| PHARMACY_NAME | MEDICATION_NAME |
|-----------------|-----------------|
| City Pharmacy | Amoxicillin |
| City Pharmacy | Cetirizine |
| Town Drugstore | Paracetamol |
| Town Drugstore | Amoxicillin |
| Town Drugstore | Cetirizine |
| Village Chemist | Paracetamol |
| Village Chemist | Amoxicillin |
| Village Chemist | Cetirizine |

9 rows selected.

| Worksheet | Query Builder |
|---|---------------|
| <pre>SELECT p.First_Name, p.Last_Name, i.Insurance_Company_Name FROM Patient p LEFT JOIN Insurance_Provider i ON p.Insurance_ID = i.Insurance_ID;</pre> | |

| Script Output x | |
|---------------------------------|-----------------|
| Task completed in 0.031 seconds | |
| Village Chemist | Cetirizine |
| 9 rows selected. | |
| PHARMACY_NAME | MEDICATION_NAME |
| City Pharmacy | Paracetamol |
| Town Drugstore | Amoxicillin |
| Village Chemist | Cetirizine |
| FIRST_NAME | LAST_NAME |
| John | Doe |
| Jane | Smith |
| Alice | Johnson |

| pharmaconnect~1 x |
|---------------------------------|
| Task completed in 0.026 seconds |

| Worksheet | Query Builder |
|---|---------------|
| <pre>SELECT m.Name AS Medication_Name, p.Pharmacy_Name FROM Medication m RIGHT JOIN Pharmacy_Medication pm ON m.Medication_ID = pm.Medication_ID RIGHT JOIN Pharmacy p ON pm.Pharmacy_ID = p.Pharmacy_ID;</pre> | |

| Script Output x | |
|---------------------------------|-----------------|
| Task completed in 0.026 seconds | |
| City Pharmacy | Paracetamol |
| Town Drugstore | Amoxicillin |
| Village Chemist | Cetirizine |
| FIRST_NAME | LAST_NAME |
| John | Doe |
| Jane | Smith |
| Alice | Johnson |
| MEDICATION_NAME | PHARMACY_NAME |
| Paracetamol | City Pharmacy |
| Amoxicillin | Town Drugstore |
| Cetirizine | Village Chemist |

Worksheet Query Builder

```
SELECT m.Name AS Medication_Name, ir.Stock_Level
FROM Medication m
FULL OUTER JOIN Inventory_Record ir ON m.Medication_ID = ir.Medication_ID;
```

Script Output x

Task completed in 0.033 seconds

| | |
|-------|---------|
| John | Doe |
| Jane | Smith |
| Alice | Johnson |

| MEDICATION_NAME | PHARMACY_NAME |
|-----------------|-----------------|
| Paracetamol | City Pharmacy |
| Amoxicillin | Town Drugstore |
| Cetirizine | Village Chemist |

| MEDICATION_NAME | STOCK_LEVEL |
|-----------------|-------------|
| Paracetamol | 100 |
| Amoxicillin | 200 |
| Cetirizine | 150 |

Worksheet Query Builder

```
INSERT INTO Pharmacy (Pharmacy_ID, Pharmacy_Name, Pharmacy_Address, Phone, Email)
VALUES (3, 'Main Street Pharmacy', '123 Main St, Anytown USA', '555-1234', 'info@mainstreetpharmacy.com');

-- Insert second pharmacy
INSERT INTO Pharmacy (Pharmacy_ID, Pharmacy_Name, Pharmacy_Address, Phone, Email)
VALUES (4, 'Oakwood Pharmacy', '456 Oak Rd, Somewhere City', '555-5678', 'oakwood@pharmacy.net');

-- If both inserts are successful, commit the transaction
COMMIT;
DBMS_OUTPUT.PUT_LINE('Pharmacies inserted successfully.');
```

EXCEPTION

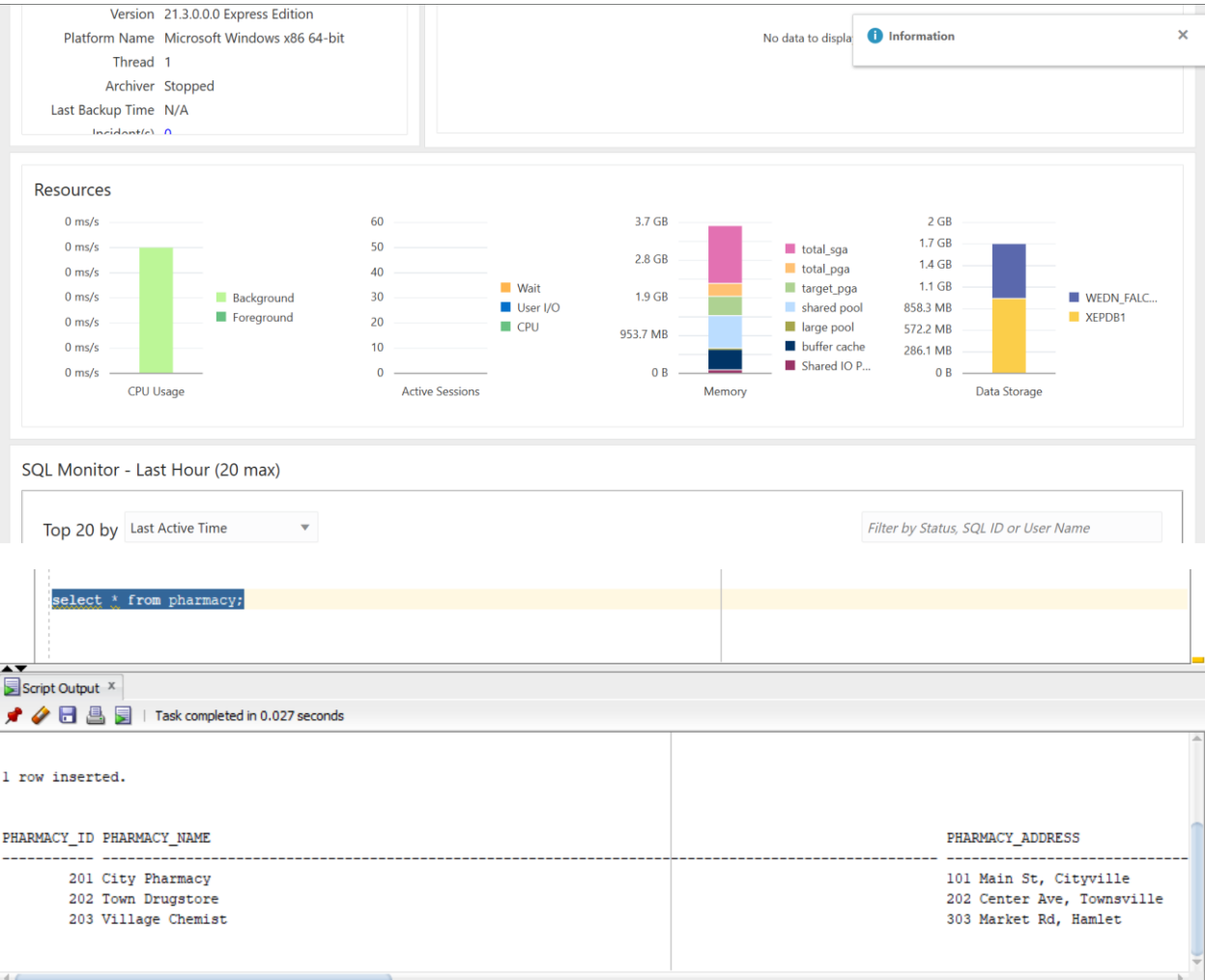
```
WHEN OTHERS THEN
-- If there is any error, rollback the transaction
ROLLBACK;
DBMS_OUTPUT.PUT_LINE('An error occurred. Changes have been rolled back.');
```

Script Output x

Task completed in 0.06 seconds

PL/SQL procedure successfully completed.

| PHARMACY_ID | PHARMACY_NAME | PHARMACY_ADDRESS |
|-------------|----------------------|----------------------------|
| 201 | City Pharmacy | 101 Main St, Cityville |
| 202 | Town Drugstore | 202 Center Ave, Townsville |
| 203 | Village Chemist | 303 Market Rd, Hamlet |
| 3 | Main Street Pharmacy | 123 Main St, Anytown USA |



TEAM MEMBERS :

| | | |
|---|-------------------------|-------|
| - | ISHIMWE Patience | 25708 |
| - | KOKO BYAMANA Christian | 22807 |
| - | INGABIRE Nadine | 23675 |
| - | KIGERO KANYANA Daniella | 24652 |
| - | UWAMWIZA Kelia | 24745 |
| - | HARERIMANA Gaspard | 24960 |
| - | ISIBO MUHIRE Yanis | 25396 |
| - | UMUTONI Nadege | 26609 |
| - | UWAMWIZA Kelia | 24745 |
| - | MAZIMPAKA Danny | 25748 |
| - | ISHIMWE Joel | 24720 |
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