Florida Atlantic University
COLLEGE OF BUSINESS

ISM 6217 – Database Management Systems

Project – Part 3
5 points

JASHWANTH DASARI (Z23761602)

Sree Teja Reddy Chappidi (Z23754920)

Task: Data manipulation on the tables created in Project – Part 2.

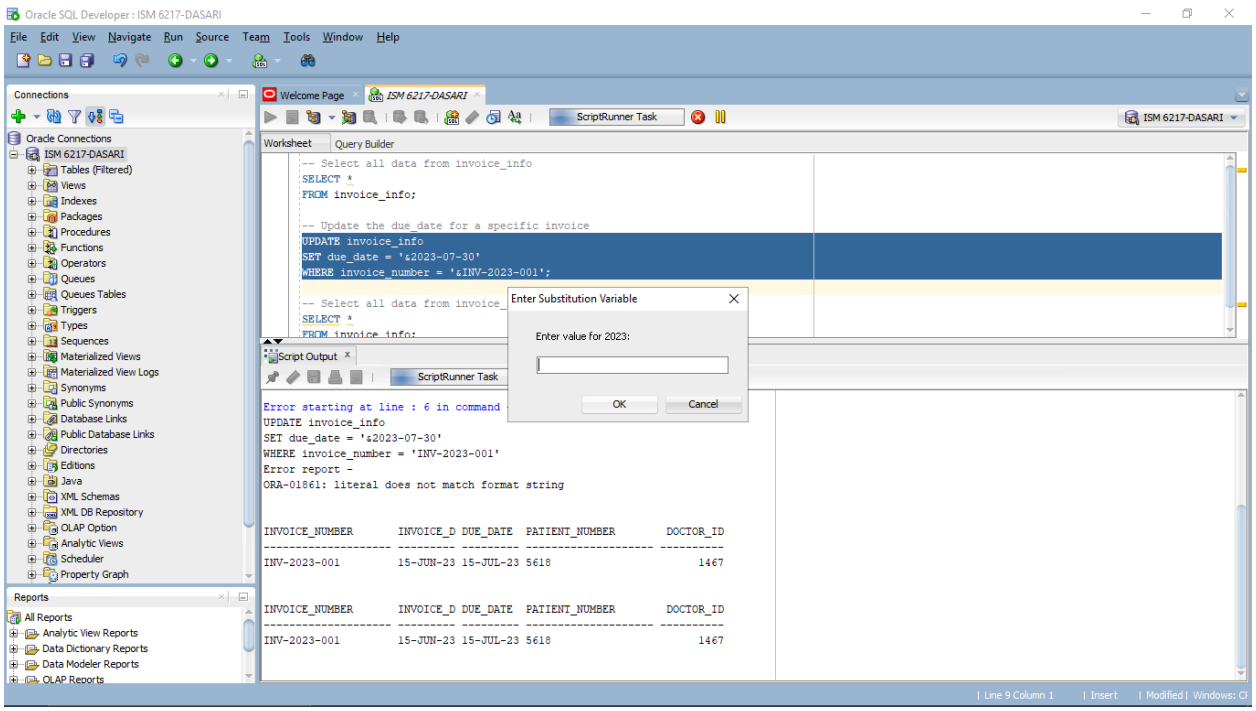
Note: Present this on a separate Word document named Project – Part 3.

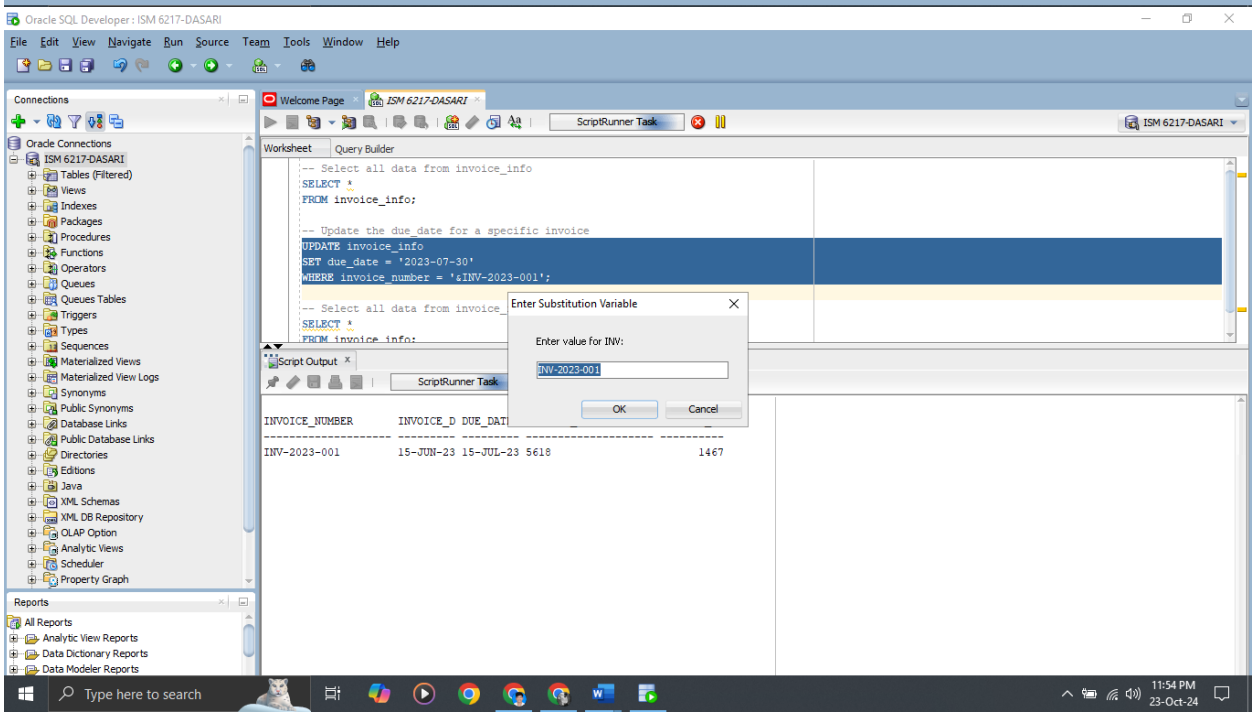
Perform the following functions using the following commands **on any of the tables created** in Project Part 2. Paste SQL and results for each. For the UPDATE command perform Select * and provide a screenshot of the results.

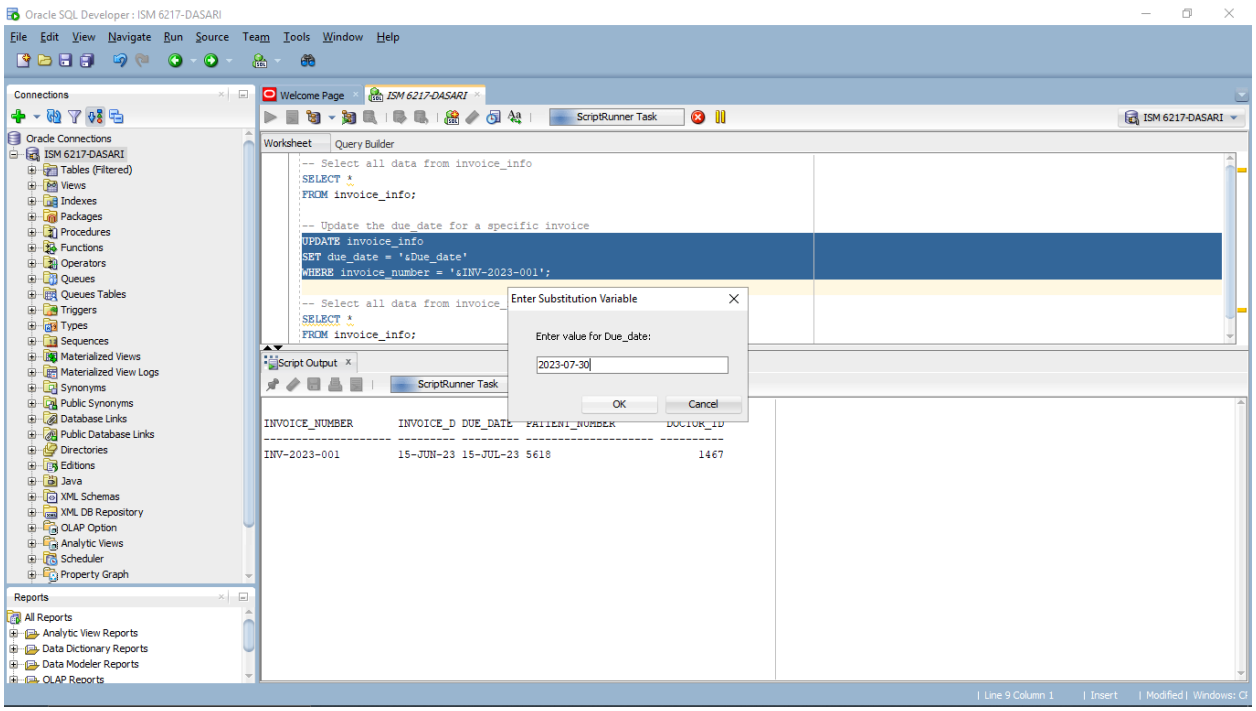
Explain in at least 'one' sentence the business problem statement for 'each' of these queries.

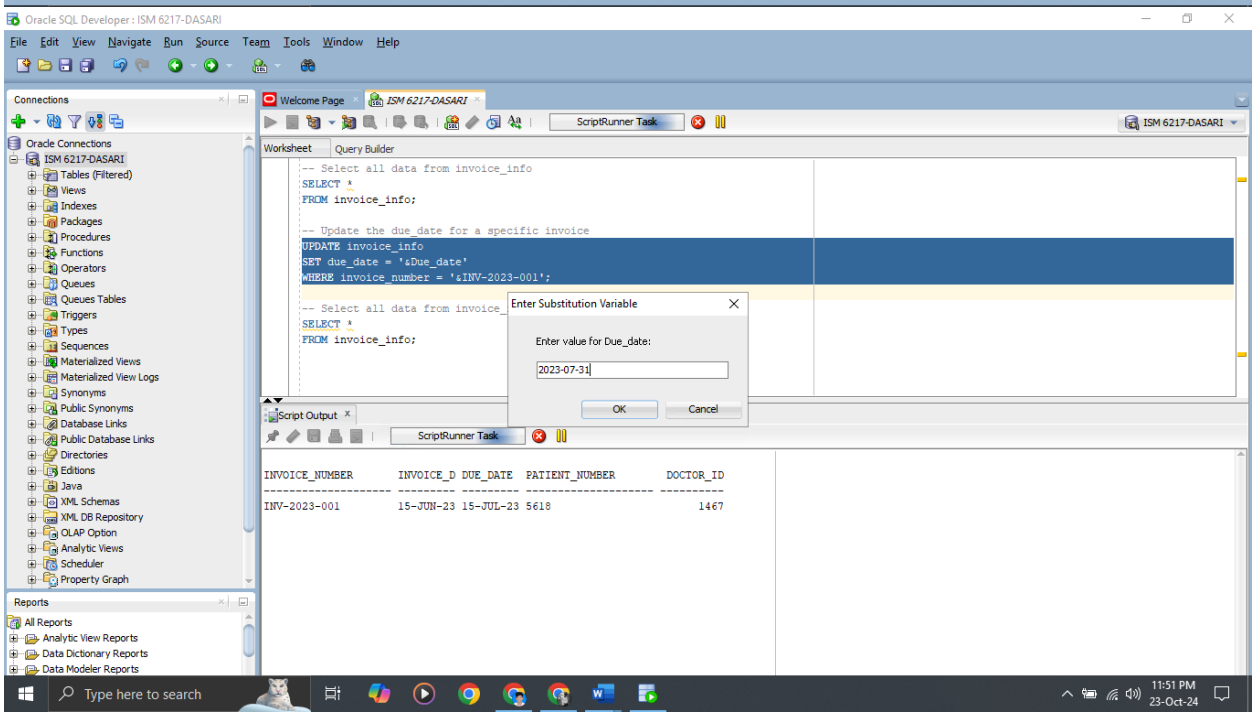
Please do not use all these commands on similar tables. You need to diversify so that all your tables get involved in this assignment.

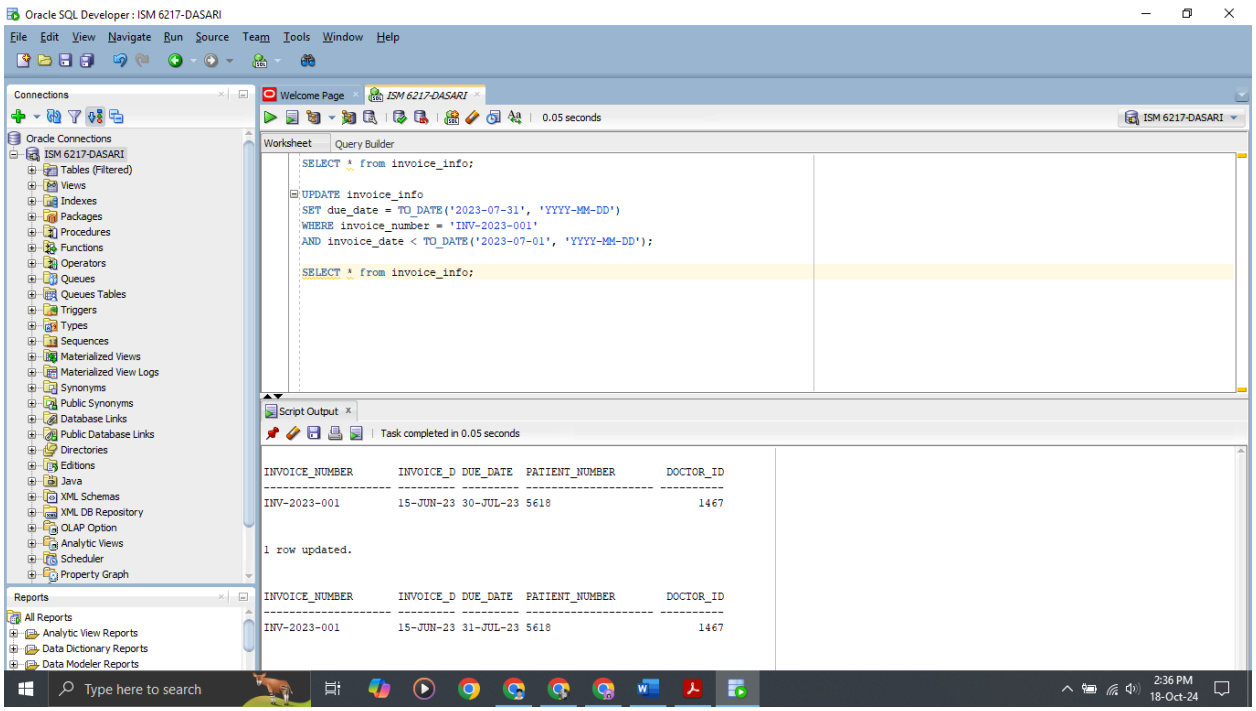
1. UPDATE using WHERE (ampersand (&) in the clause) - *0.5 points*


Oracle SQL Developer : ISM 6217-DASARI
File Edit View Navigate Run Source Team Tools Window Help
Connections
Oracle Connections
ISM 6217-DASARI
Tables (Filtered)
Views
Indexes
Packages
Procedures
Functions
Operators
Queues
Queues Tables
Triggers
Types
Sequences
Materialized Views
Materialized View Logs
Synonyms
Public Synonyms
Database Links
Public Database Links
Directories
Editions
Java
XML Schemas
XML DB Repository
OLAP Option
Analytic Views
Scheduler
Property Graph
Reports
All Reports
Analytic View Reports
Data Dictionary Reports
Data Modeler Reports
OLAP Reports
Welcome Page
ISM 6217-DASARI
ScriptRunner Task
ISM 6217-DASARI
Worksheet
Query Builder
-- Select all data from invoice_info
SELECT *
FROM invoice_info;
-- Update the due_date for a specific invoice
UPDATE invoice_info
SET due_date = '&2023-07-30'
WHERE invoice_number = '&INV-2023-001';
-- Select all data from invoice_
SELECT *
FROM invoice_info;
Enter Substitution Variable
Enter value for 2023:
OK
Cancel
Script Output
ScriptRunner Task
Error starting at line : 6 in command
UPDATE invoice_info
SET due_date = '&2023-07-30'
WHERE invoice_number = 'INV-2023-001'
Error report -
ORA-01861: literal does not match format string
INVOICE_NUMBER INVOICE_D DUE_DATE PATIENT_NUMBER DOCTOR_ID
INV-2023-001 15-JUN-23 15-JUL-23 5618 1467
INVOICE_NUMBER INVOICE_D DUE_DATE PATIENT_NUMBER DOCTOR_ID
INV-2023-001 15-JUN-23 15-JUL-23 5618 1467
Line 9 Column 1
Insert
Modified
Windows: Cr


Oracle SQL Developer : ISM 6217-DASARI
File Edit View Navigate Run Source Team Tools Window Help
Connections
Oracle Connections
ISM 6217-DASARI
Tables (Filtered)
Views
Indexes
Packages
Procedures
Functions
Operators
Queues
Queues Tables
Triggers
Types
Sequences
Materialized Views
Materialized View Logs
Synonyms
Public Synonyms
Database Links
Public Database Links
Directories
Editions
Java
XML Schemas
XML DB Repository
OLAP Option
Analytic Views
Scheduler
Property Graph
Reports
All Reports
Analytic View Reports
Data Dictionary Reports
Data Modeler Reports
Welcome Page
ISM 6217-DASARI
ScriptRunner Task
ISM 6217-DASARI
Worksheet
Query Builder
-- Select all data from invoice_info
SELECT *
FROM invoice_info;
-- Update the due_date for a specific invoice
UPDATE invoice_info
SET due_date = '2023-07-30'
WHERE invoice_number = '&INV-2023-001';
-- Select all data from invoice_
SELECT *
FROM invoice_info;
Enter Substitution Variable
Enter value for INV:
INV-2023-001
OK
Cancel
Script Output
ScriptRunner Task
INVOICE_NUMBER INVOICE_D DUE_DATI
INV-2023-001 15-JUN-23 15-JUL-23 5618 1467
Type here to search
11:54 PM
23-Oct-24


Oracle SQL Developer : ISM 6217-DASARI
File Edit View Navigate Run Source Team Tools Window Help
Connections
Oracle Connections
ISM 6217-DASARI
Tables (Filtered)
Views
Indexes
Packages
Procedures
Functions
Operators
Queues
Queues Tables
Triggers
Types
Sequences
Materialized Views
Materialized View Logs
Synonyms
Public Synonyms
Database Links
Public Database Links
Directories
Editions
Java
XML Schemas
XML DB Repository
OLAP Option
Analytic Views
Scheduler
Property Graph
Reports
All Reports
Analytic View Reports
Data Dictionary Reports
Data Modeler Reports
OLAP Reports
Welcome Page
ISM 6217-DASARI
ScriptRunner Task
ISM 6217-DASARI
Worksheet
Query Builder
-- Select all data from invoice_info
SELECT *
FROM invoice_info;
-- Update the due_date for a specific invoice
UPDATE invoice_info
SET due_date = '&Due_date'
WHERE invoice_number = '&INV-2023-001';
-- Select all data from invoice_
SELECT *
FROM invoice_info;
Enter Substitution Variable
Enter value for Due_date:
2023-07-30
OK
Cancel
Script Output
ScriptRunner Task
INVOICE_NUMBER INVOICE_D DUE_DATE PATIENT_NUMBER DOCTOR_ID
INV-2023-001 15-JUN-23 15-JUL-23 5618 1467
Line 9 Column 1
Insert
Modified
Windows: CR

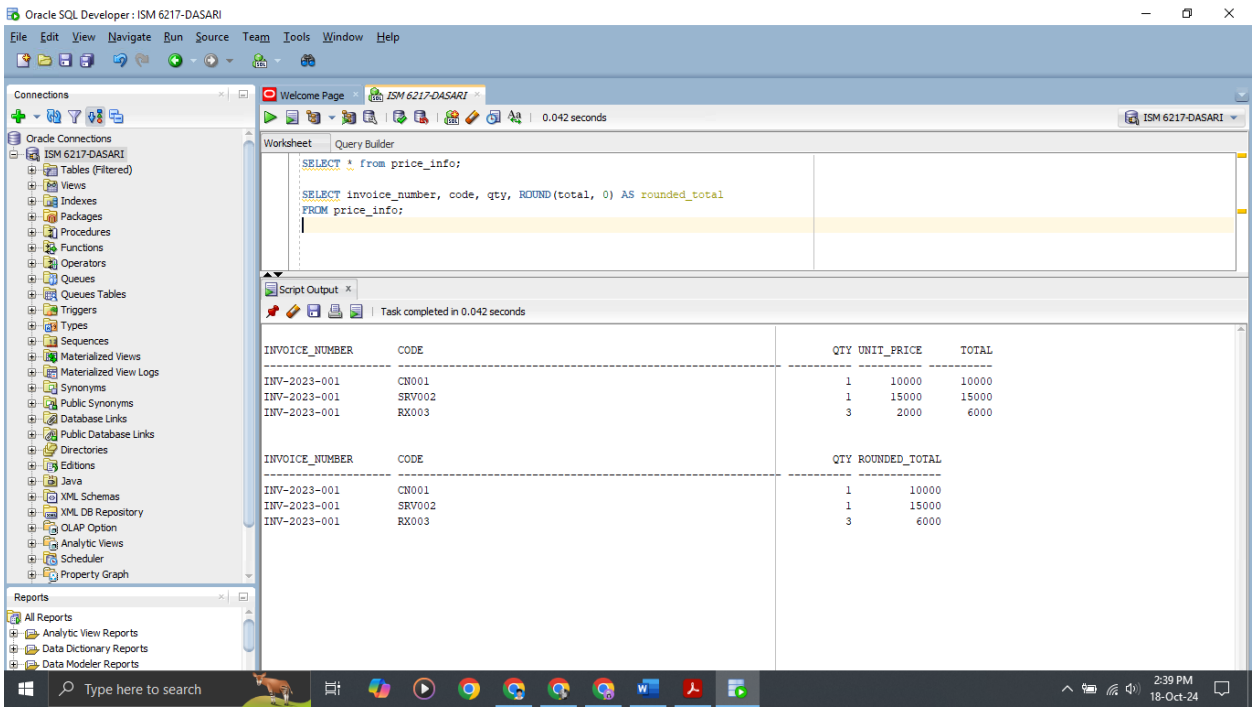

Oracle SQL Developer : ISM 6217-DASARI
File Edit View Navigate Run Source Team Tools Window Help
Connections
Oracle Connections
ISM 6217-DASARI
Tables (Filtered)
Views
Indexes
Packages
Procedures
Functions
Operators
Queues
Queues Tables
Triggers
Types
Sequences
Materialized Views
Materialized View Logs
Synonyms
Public Synonyms
Database Links
Public Database Links
Directories
Editions
Java
XML Schemas
XML DB Repository
OLAP Option
Analytic Views
Scheduler
Property Graph
Reports
All Reports
Analytic View Reports
Data Dictionary Reports
Data Modeler Reports
Welcome Page
ISM 6217-DASARI
ScriptRunner Task
ISM 6217-DASARI
Worksheet
Query Builder
-- Select all data from invoice_info
SELECT *
FROM invoice_info;
-- Update the due_date for a specific invoice
UPDATE invoice_info
SET due_date = '&Due_date'
WHERE invoice_number = '&INV-2023-001';
-- Select all data from invoice_
SELECT *
FROM invoice_info;
Enter Substitution Variable
Enter value for Due_date:
2023-07-31
OK
Cancel
Script Output
ScriptRunner Task
INVOICE_NUMBER INVOICE_D DUE_DATE PATIENT_NUMBER DOCTOR_ID
INV-2023-001 15-JUN-23 15-JUL-23 5618 1467
Type here to search
11:51 PM
23-Oct-24



I got for 1st time and again I was getting error for that

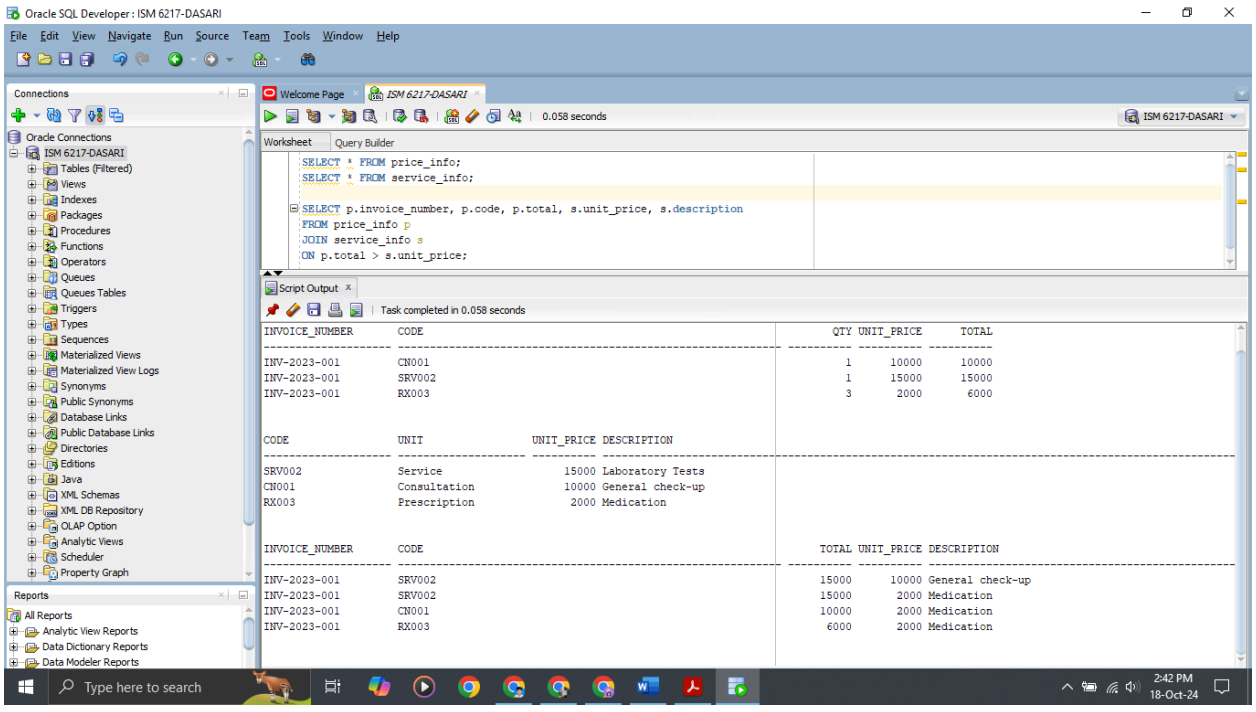
Business Problem Explanation:
This query updates the due date of invoices generated before a certain date, which could be useful for managing delayed payments or customer requests to extend the deadline.

2. SELECT using ROUND function – *0.5 points*



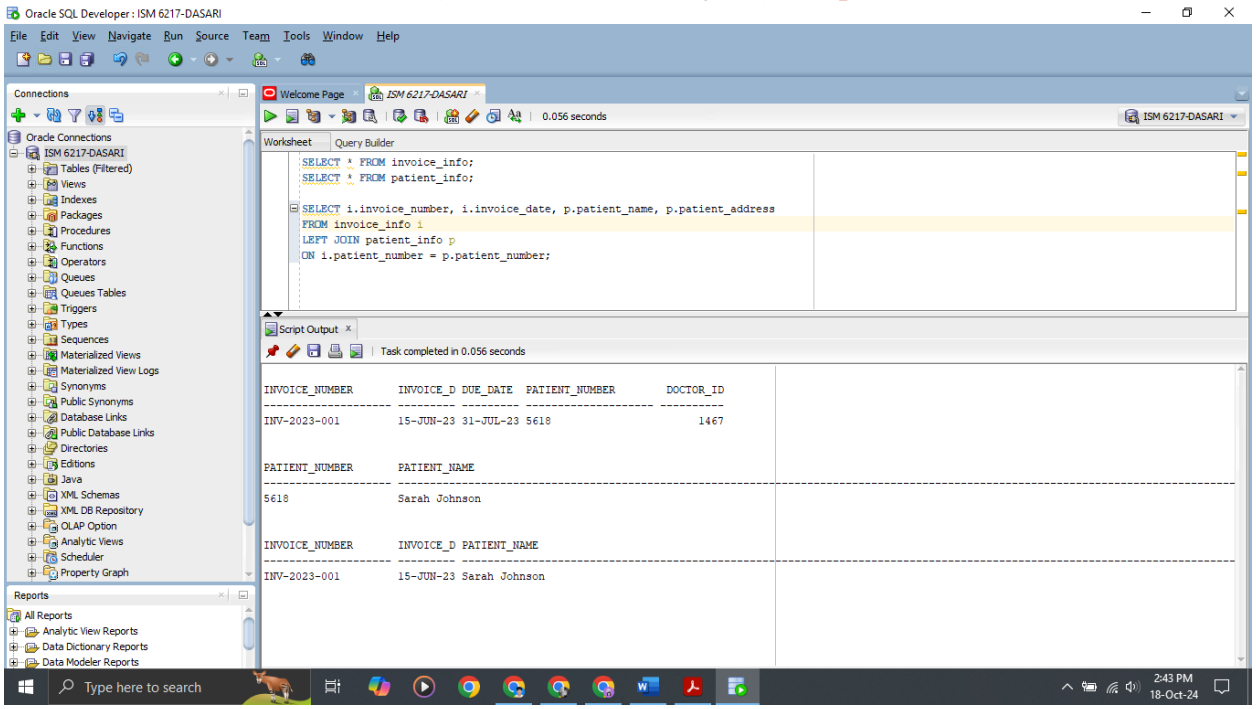
Business Problem Explanation:
Rounding the total price to the nearest whole number can be useful when preparing customer invoices or reports that do not need to include fractional amounts, improving readability.

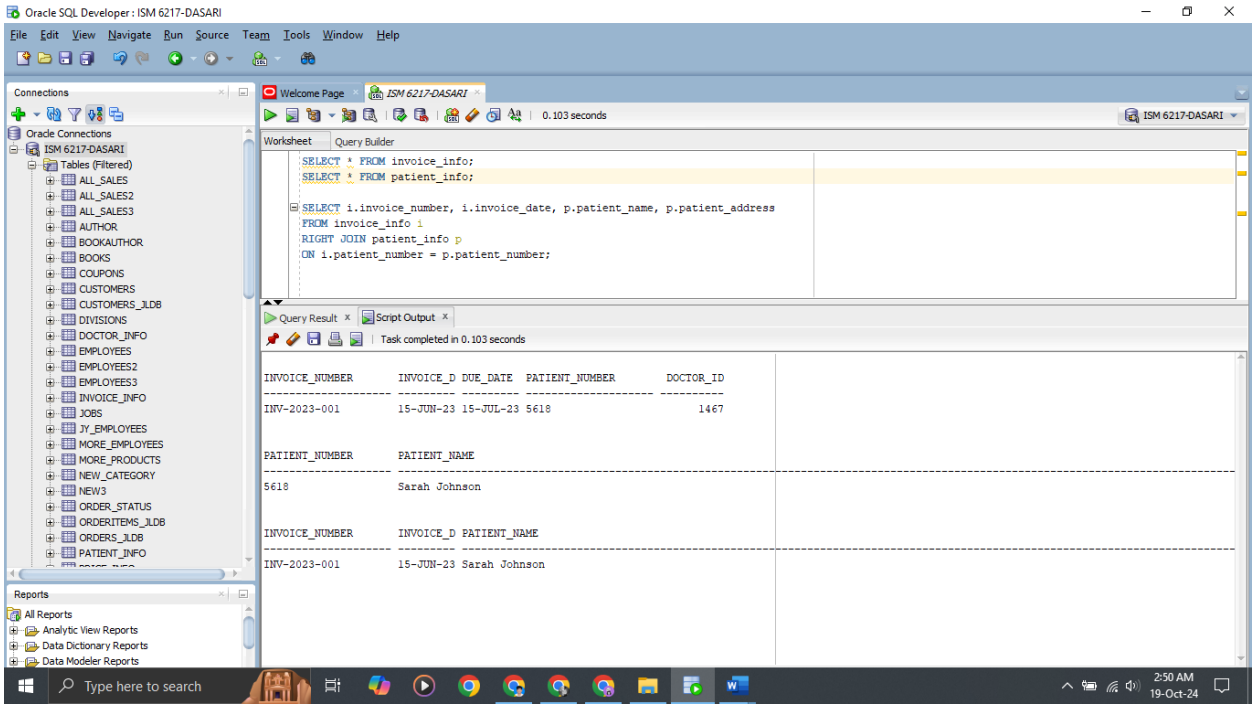
3. NON-EQUALITY join of two tables using the JOIN…ON – *0.5 points*



Business Problem Explanation:
This query identifies services where the total price charged on an invoice is greater than the base unit price. This can help spot cases where additional fees, taxes, or services were added to the base service cost.

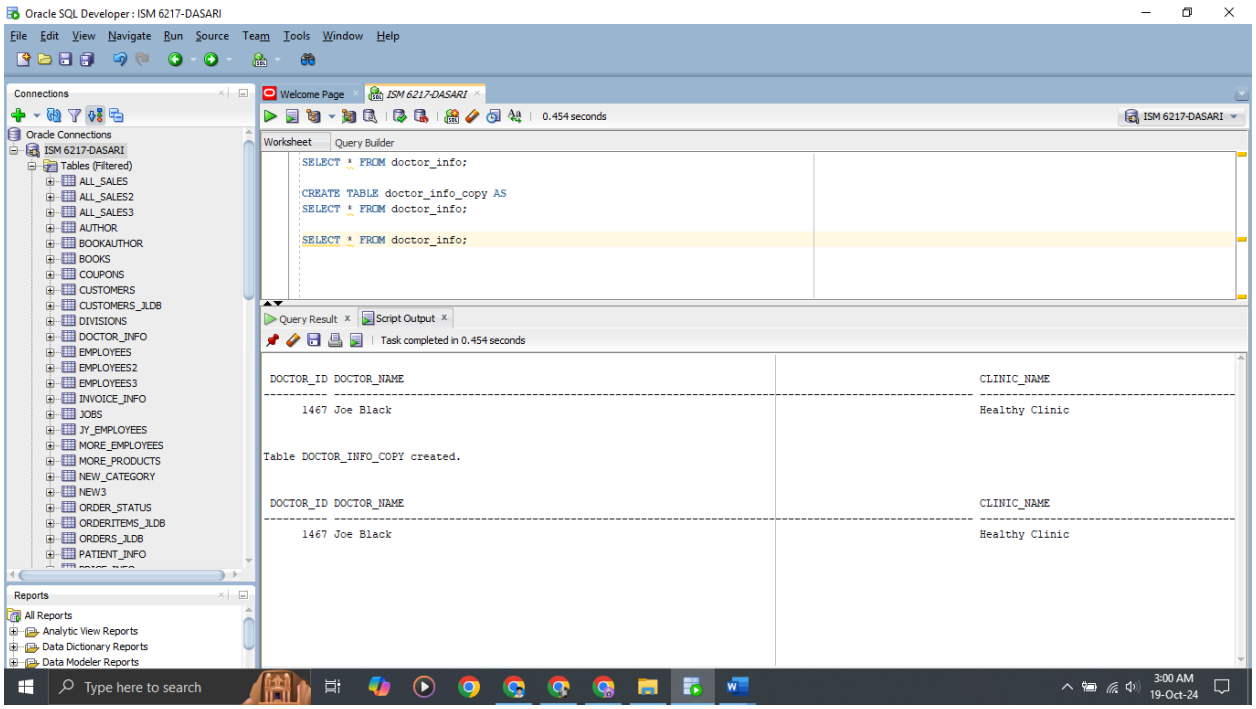
4. OUTER JOIN of two tables (LEFT or RIGHT join) – *1 point*



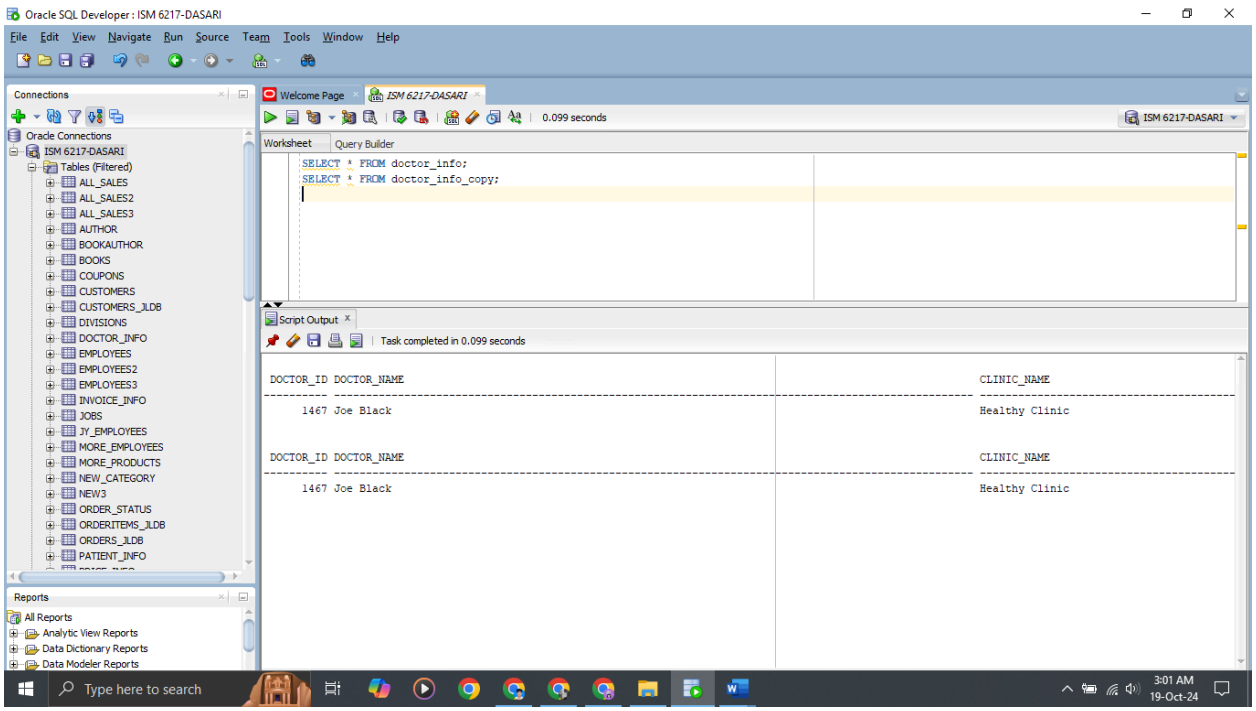


Business Problem Explanation:
This query helps identify invoices that may be missing associated patient details. This could be useful for data validation, ensuring that all invoices are properly attributed to patients.

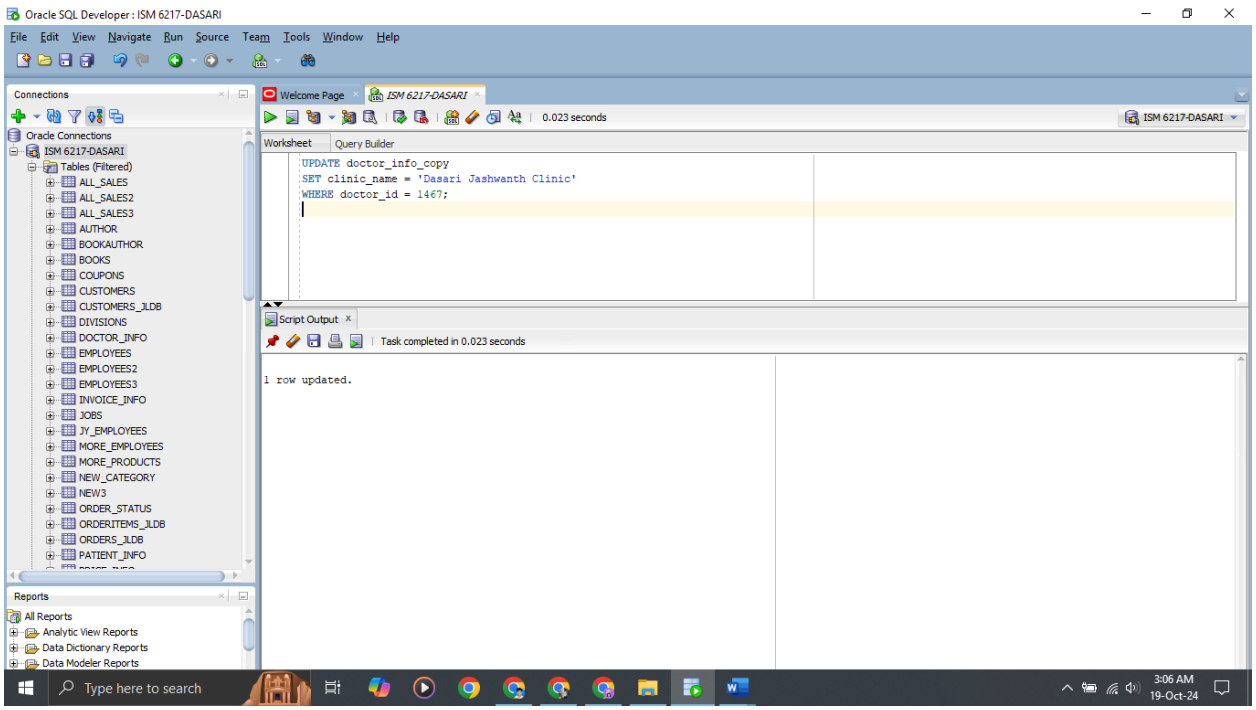
5. Create a new table (copy of the existing table from your project) – then UPDATE one row of the table and perform MERGE to keep them in sync – *2.5 points*. Show me the SELECT * of both tables after copying. Then another SELECT * after UPDATE. Then another SELECT * on both the tables after MERGE.
   - Create a copy of the doctor_info table:



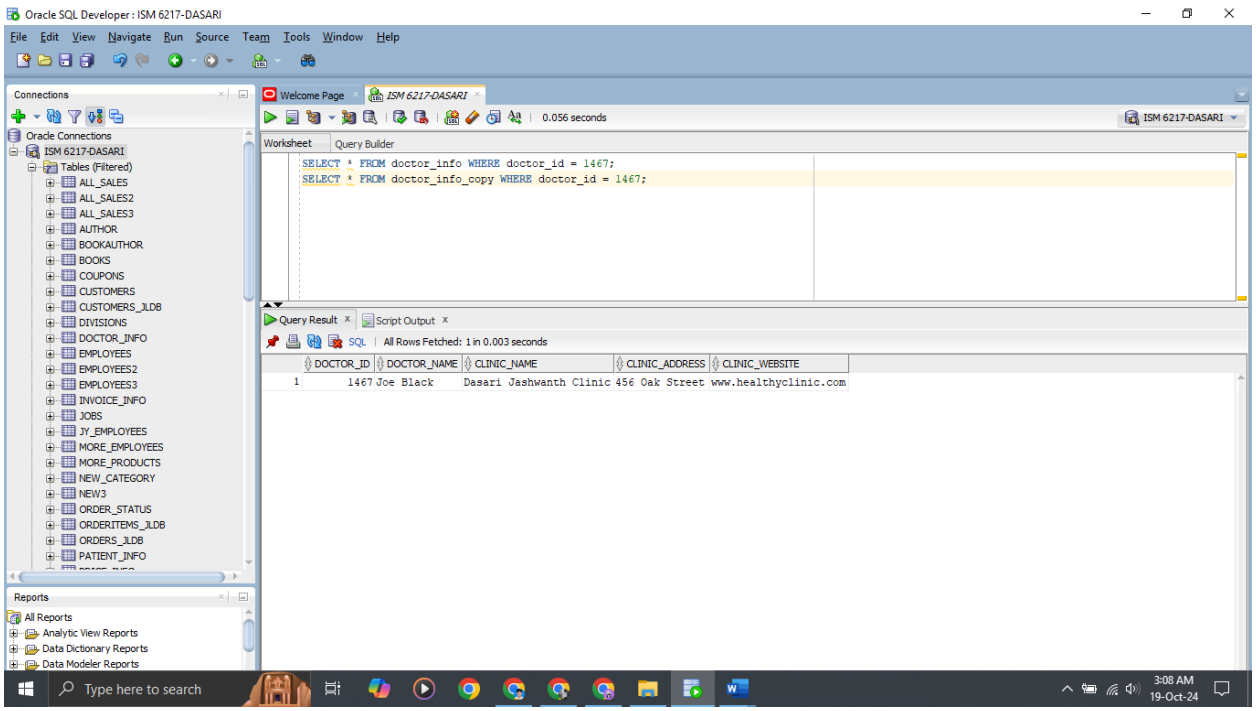
   - SELECT all records from both tables to show the initial state:



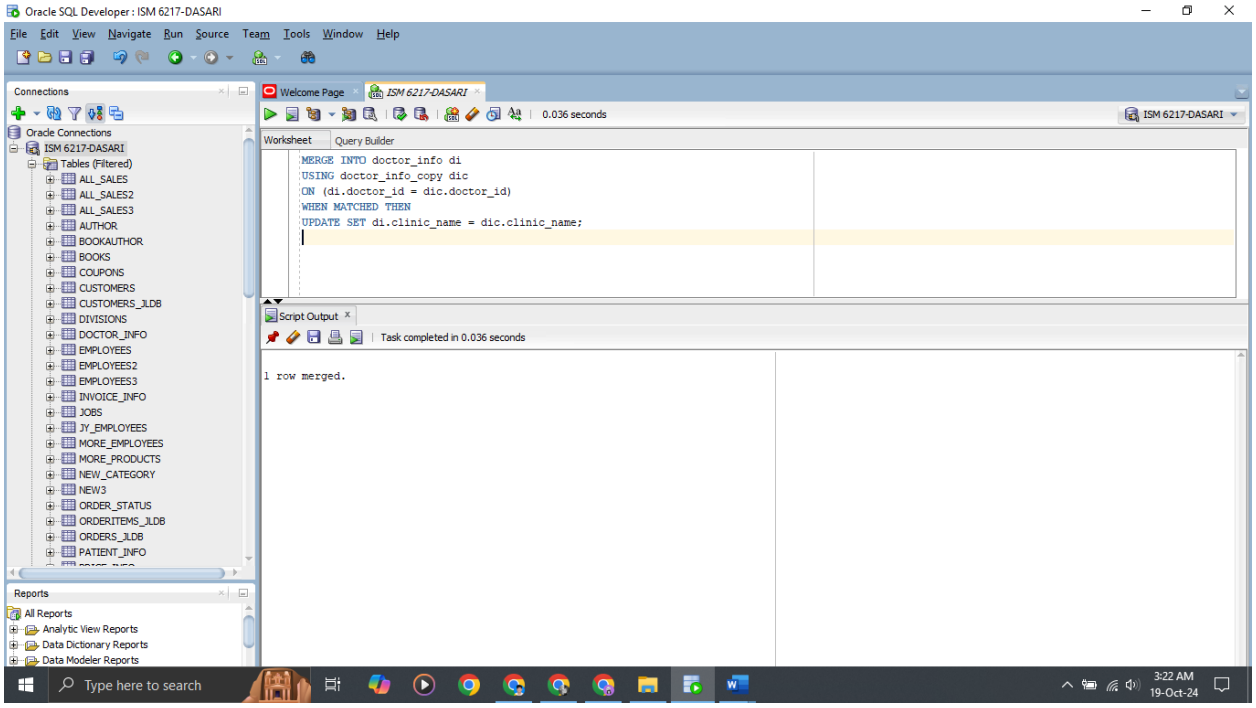
- UPDATE a row in the copy:



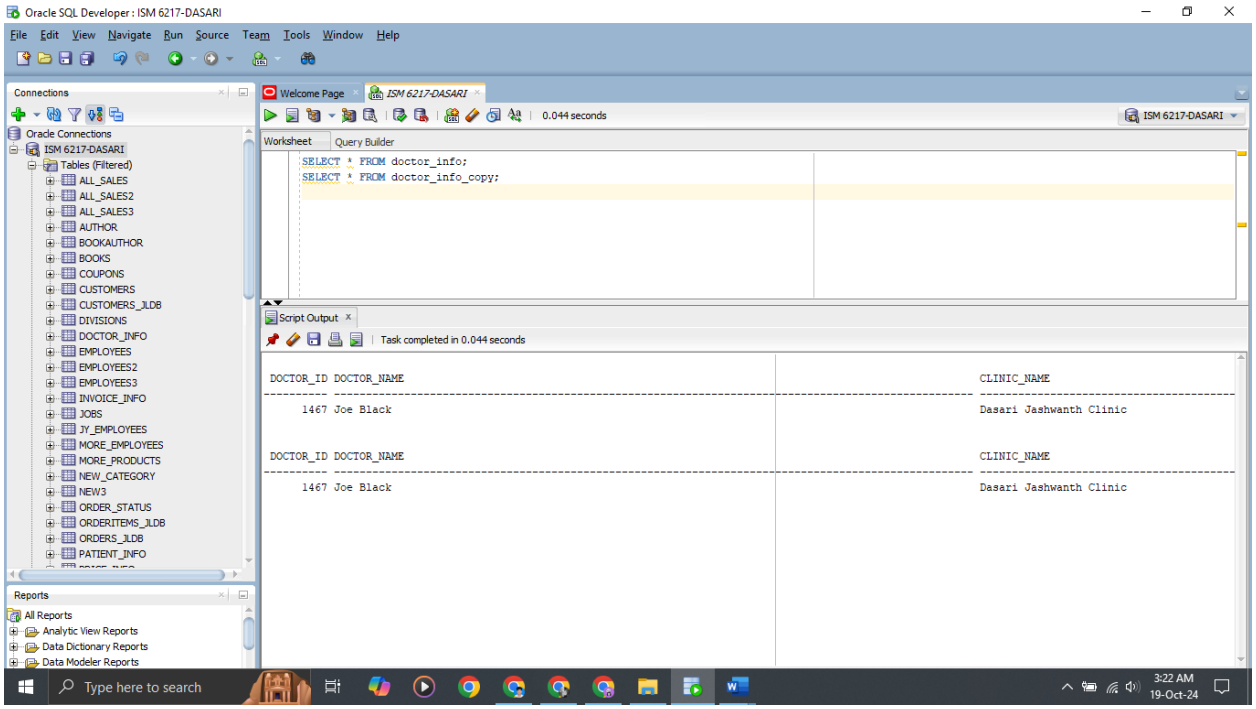
- SELECT all records from both tables after the update:

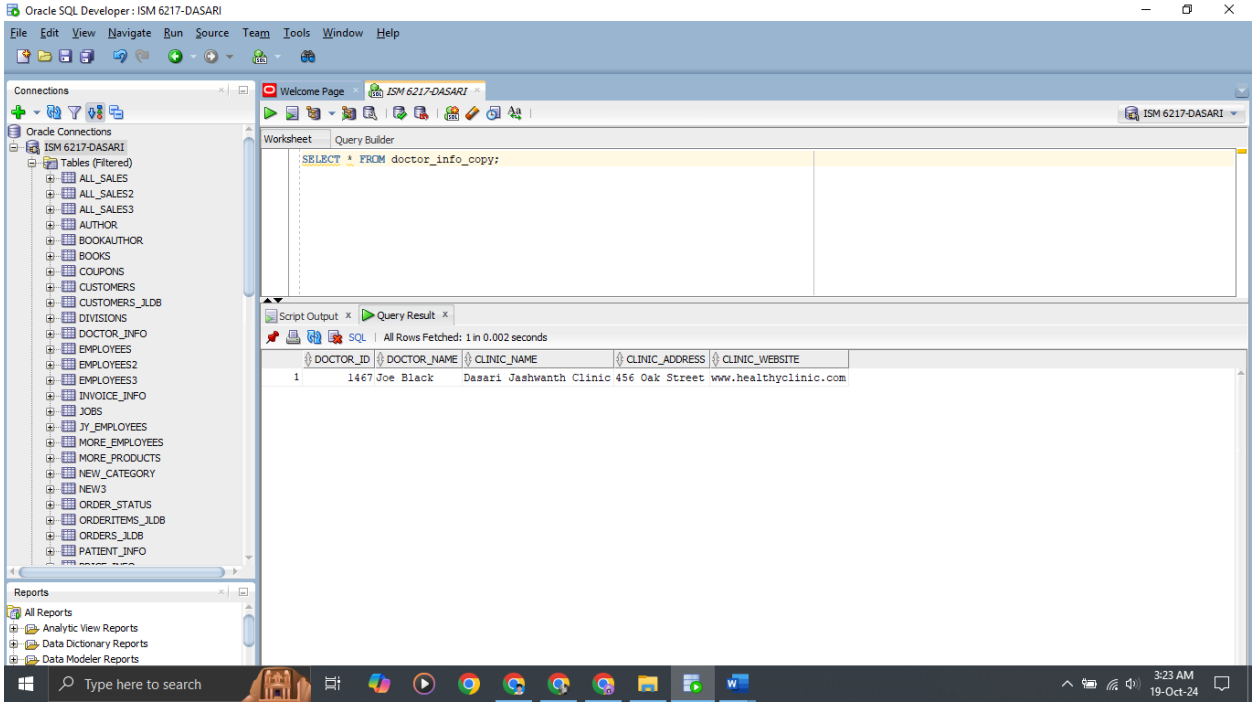


- MERGE to sync the doctor_info table with the updated copy:



- SELECT all records from both tables after the MERGE:





Business Problem Explanation:
This query ensures that a doctor's updated clinic information is reflected in the main table, maintaining consistency between the live data and a temporary copy. This approach can be used to stage updates or changes before pushing them to production.