



Florida Atlantic University
COLLEGE OF BUSINESS

ISM 6217 – Database Management Systems

Project - Part 2

10 points

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Task: Table creation and Management

Note: Present this on a separate Word document named Project – Part 2.

1. From Project 1 - Create all the tables that you had finally designed through the normalization process (that is the final tables in 3NF). Remember to create them with constraints for primary and foreign keys – give constraint names ending with _PK, _FK, _CK along with their column names. Paste the screenshots of the SQL you used to create each one. *(3 points)*.

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Connections

- Oracle Connections
- ISM 6217-DASARI
- Database Schema Service Connections

Worksheet

```
CREATE TABLE patient_info(  
  patient_number VARCHAR(20) CONSTRAINT patient_number_PK PRIMARY KEY, -- Primary Key (PK)  
  patient_name VARCHAR(150) NOT NULL, -- NOT NULL constraint  
  patient_address VARCHAR(212) NOT NULL, -- NOT NULL constraint  
  patient_mail VARCHAR(50) NOT NULL -- NOT NULL constraint  
);
```

Script Output

Task completed in 0.044 seconds

00904. 00000 - "%s: invalid identifier"
Cause:
Action:
Table PATIENT_INFO created.

Error starting at line : 1 in command -
CREATE TABLE patient_info(
 patient_number VARCHAR(20) CONSTRAINT patient_number_PK PRIMARY KEY, -- Primary Key (PK)
 patient_name VARCHAR(150) NOT NULL, -- NOT NULL constraint
 patient_address VARCHAR(212) NOT NULL, -- NOT NULL constraint
 patient_mail VARCHAR(50) NOT NULL -- NOT NULL constraint
);

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports

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7:09 PM 16-Oct-24

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Connections

- Oracle Connections
- ISM 6217-DASARI
- Database Schema Service Connections

Worksheet

```
CREATE TABLE doctor_info (  
  doctor_id NUMBER(20) CONSTRAINT doctor_id_PK PRIMARY KEY , -- Primary Key (PK)  
  doctor_name VARCHAR(100) NOT NULL, -- NOT NULL constraint  
  clinic_name VARCHAR(100) NOT NULL, -- NOT NULL constraint  
  clinic_address VARCHAR(255) NOT NULL, -- NOT NULL constraint  
  clinic_website VARCHAR(100) NOT NULL -- NOT NULL constraint  
);
```

Script Output

Task completed in 0.045 seconds

Table DOCTOR_INFO created.

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports

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Connections

- Oracle Connections
- ISM 6217-DASARI
- Database Schema Service Connections

Worksheet Query Builder

```
CREATE TABLE invoice_info(  
  invoice_number VARCHAR(20) CONSTRAINT invoice_number_PK PRIMARY KEY, -- Primary Key (PK)  
  invoice_date DATE NOT NULL,  
  due_date DATE NOT NULL,  
  patient_number VARCHAR(20), -- Foreign Key (FK)  
  doctor_id NUMBER(20), -- Foreign Key (FK)  
  CONSTRAINT patient_number_FK FOREIGN KEY (patient_number)  
  REFERENCES patient_info(patient_number),  
  CONSTRAINT doctor_id_FK FOREIGN KEY (doctor_id)  
  REFERENCES doctor_info(doctor_id)  
);
```

Script Output

Task completed in 0.049 seconds

Table INVOICE_INFO created.

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports

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Connections

- Oracle Connections
- ISM 6217-DASARI
- Database Schema Service Connections

Worksheet Query Builder

```
CREATE TABLE service_info (  
  code VARCHAR(20) CONSTRAINT code_PK PRIMARY KEY, -- Primary Key (PK)  
  unit VARCHAR(10) NOT NULL, -- NOT NULL constraint  
  unit_price NUMBER(10, 2) NOT NULL, -- NOT NULL constraint with 2 decimal places  
  description VARCHAR(255) -- Text description  
);
```

Script Output

Task completed in 0.038 seconds

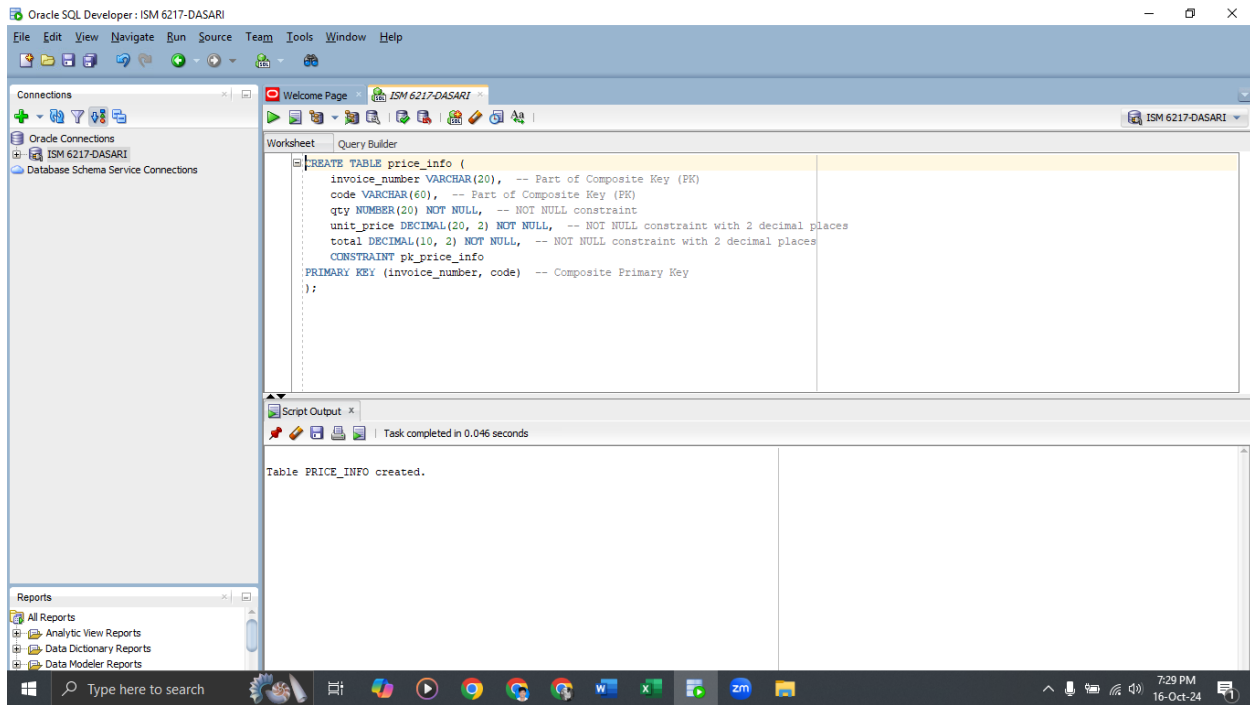
Table SERVICE_INFO created.

Reports

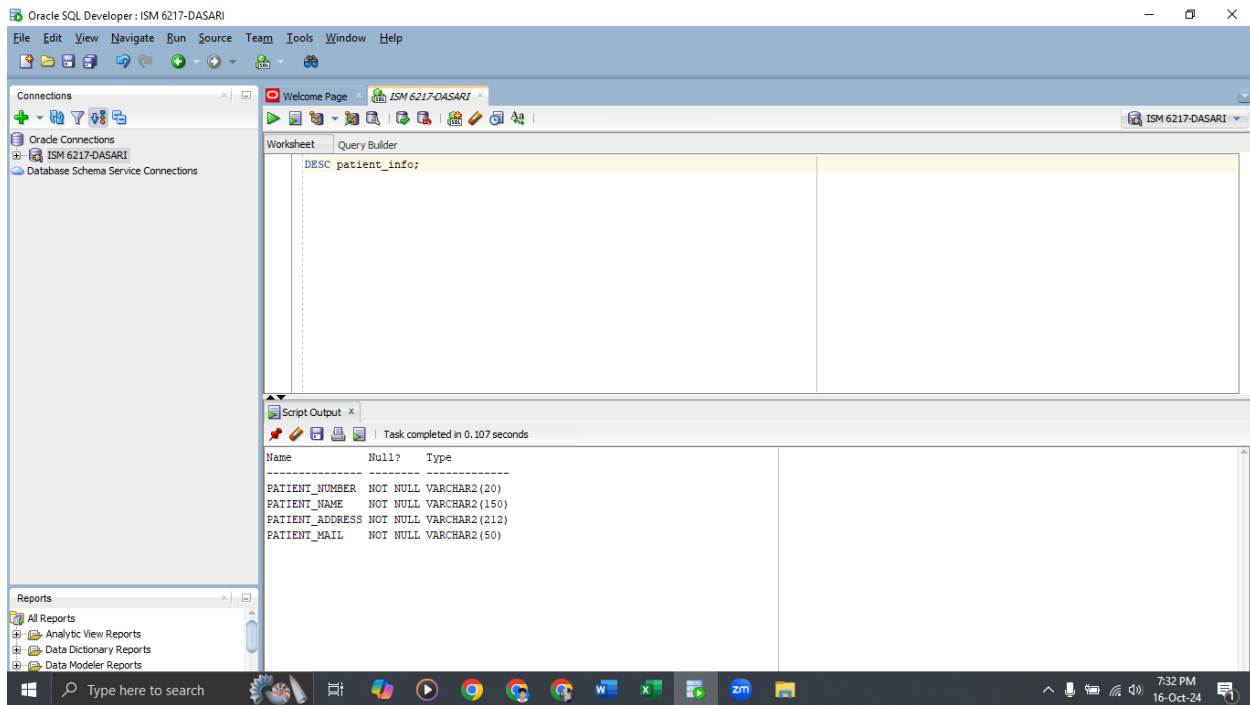
- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports

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- Perform the DESC command and query the user_constraints table to confirm the constraints you added – for ‘each’ of the Tables created in the above step. Paste the screenshot of the DESC and user_constraints query SQL and results. (2 points).



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Connections

- Oracle Connections
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- Database Schema Service Connections

Worksheet Query Builder

```
DESC doctor_info;
```

Script Output

Task completed in 0.896 seconds

Name	Null?	Type
DOCTOR_ID	NOT NULL	NUMBER(20)
DOCTOR_NAME	NOT NULL	VARCHAR2(100)
CLINIC_NAME	NOT NULL	VARCHAR2(100)
CLINIC_ADDRESS	NOT NULL	VARCHAR2(255)
CLINIC_WEBSITE	NOT NULL	VARCHAR2(100)

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports

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Connections

- Oracle Connections
- ISM 6217-DASARI
- Database Schema Service Connections

Worksheet Query Builder

```
DESC invoice_info;
```

Script Output

Task completed in 0.828 seconds

Name	Null?	Type
INVOICE_NUMBER	NOT NULL	VARCHAR2(20)
INVOICE_DATE	NOT NULL	DATE
DUE_DATE	NOT NULL	DATE
PATIENT_NUMBER		VARCHAR2(20)
DOCTOR_ID		NUMBER(20)

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports

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Connections

- Oracle Connections
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- Database Schema Service Connections

Script Output

Task completed in 0.831 seconds

Name	Null?	Type
CODE	NOT NULL	VARCHAR2 (20)
UNIT	NOT NULL	VARCHAR2 (10)
UNIT_PRICE	NOT NULL	NUMBER (10,2)
DESCRIPTION		VARCHAR2 (255)

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports

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Connections

- Oracle Connections
- ISM 6217-DASARI
- Database Schema Service Connections

Script Output

Task completed in 0.834 seconds

Name	Null?	Type
INVOICE_NUMBER	NOT NULL	VARCHAR2 (20)
CODE	NOT NULL	VARCHAR2 (60)
QTY	NOT NULL	NUMBER (20)
UNIT_PRICE	NOT NULL	NUMBER (20,2)
TOTAL	NOT NULL	NUMBER (10,2)

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports

Type here to search

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user constraints

The screenshot shows the Oracle SQL Developer interface. The left pane displays the database schema with various tables. The main window shows a query in the Query Builder:

```
SELECT constraint_name, constraint_type, table_name -- Query to show constraints on patient_info
FROM user_constraints
WHERE table_name = 'PATIENT_INFO';
```

The Script Output pane shows the results of the query:

CONSTRAINT_NAME	C	TABLE_NAME
SYS_C00525825	C	PATIENT_INFO
SYS_C00525826	C	PATIENT_INFO
SYS_C00525827	C	PATIENT_INFO
PATIENT_NUMBER_PK	P	PATIENT_INFO

The screenshot shows the Oracle SQL Developer interface. The left pane displays the database schema with various tables. The main window shows a query in the Query Builder:

```
SELECT constraint_name, constraint_type, table_name -- Query to show constraints on doctor_info
FROM user_constraints
WHERE table_name = 'DOCTOR_INFO';
```

The Script Output pane shows the results of the query:

CONSTRAINT_NAME	C	TABLE_NAME
SYS_C00525832	C	DOCTOR_INFO
SYS_C00525833	C	DOCTOR_INFO
SYS_C00525834	C	DOCTOR_INFO
SYS_C00525835	C	DOCTOR_INFO
DOCTOR_ID_PK	P	DOCTOR_INFO

Oracle SQL Developer: ISM 6217-DASARI

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Connections

ISM 6217-DASARI

Tables (Filtered)

- ALL_SALES
- ALL_SALES2
- ALL_SALES3
- AUTHOR
- BOOKAUTHOR
- BOOKS
- COUPONS
- CUSTOMERS
- CUSTOMERS_1LDB
- DIVISIONS
- DOCTOR_INFO
- EMPLOYEES
- EMPLOYEES2
- EMPLOYEES3
- INVOICE_INFO
- JOBS
- JY_EMPLOYEES
- MORE_EMPLOYEES
- MORE_PRODUCTS
- NEW_CATEGORY
- NEW3
- ORDER_STATUS
- ORDERITEMS_1LDB
- ORDERS_1LDB
- PATIENT_INFO
- PRICE_INFO

Reports

All Reports

Analytic View Reports

Data Dictionary Reports

Data Modeler Reports

Welcome Page

ISM 6217-DASARI

4.14099979 seconds

Worksheet Query Builder

```
SELECT constraint_name, constraint_type, table_name -- Query to show constraints on invoice_info
FROM user_constraints
WHERE table_name = 'INVOICE_INFO';
```

Script Output

Task completed in 4.141 seconds

CONSTRAINT_NAME	TABLE_NAME
SYS_C00525837	C INVOICE_INFO
SYS_C00525838	C INVOICE_INFO
PATIENT_NUMBER_FK	R INVOICE_INFO
DOCTOR_ID_FK	R INVOICE_INFO
INVOICE_NUMBER_PK	P INVOICE_INFO

Oracle SQL Developer: ISM 6217-DASARI

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Connections

ISM 6217-DASARI

Tables (Filtered)

- ALL_SALES
- ALL_SALES2
- ALL_SALES3
- AUTHOR
- BOOKAUTHOR
- BOOKS
- COUPONS
- CUSTOMERS
- CUSTOMERS_1LDB
- DIVISIONS
- DOCTOR_INFO
- EMPLOYEES
- EMPLOYEES2
- EMPLOYEES3
- INVOICE_INFO
- JOBS
- JY_EMPLOYEES
- MORE_EMPLOYEES
- MORE_PRODUCTS
- NEW_CATEGORY
- NEW3
- ORDER_STATUS
- ORDERITEMS_1LDB
- ORDERS_1LDB
- PATIENT_INFO
- PRICE_INFO

Reports

All Reports

Analytic View Reports

Data Dictionary Reports

Data Modeler Reports

Welcome Page

ISM 6217-DASARI

4.05800009 seconds

Worksheet Query Builder

```
SELECT constraint_name, constraint_type, table_name -- Query to show constraints on service_info
FROM user_constraints
WHERE table_name = 'SERVICE_INFO';
```

Script Output

Task completed in 4.058 seconds

CONSTRAINT_NAME	TABLE_NAME
SYS_C00525842	C SERVICE_INFO
SYS_C00525843	C SERVICE_INFO
CODE_FK	P SERVICE_INFO

Oracle SQL Developer: ISM 6217-DASARI

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Connections

- ISM 6217-DASARI
 - Tables (Filtered)
 - ALL_SALES
 - ALL_SALES2
 - ALL_SALES3
 - AUTHOR
 - BOOKAUTHOR
 - BOOKS
 - COUPONS
 - CUSTOMERS
 - CUSTOMERS_1LDB
 - DIVISIONS
 - DOCTOR_INFO
 - EMPLOYEES
 - EMPLOYEES2
 - EMPLOYEES3
 - INVOICE_INFO
 - JOBS
 - JY_EMPLOYEES
 - MORE_EMPLOYEES
 - MORE_PRODUCTS
 - NEW_CATEGORY
 - NEW3
 - ORDER_STATUS
 - ORDERITEMS_1LDB
 - ORDERS_1LDB
 - PATIENT_INFO
 - PRICE_INFO

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports

Welcome Page

Worksheet Query Builder

```
INSERT INTO doctor_info (doctor_id, doctor_name, clinic_name, clinic_address, clinic_website)
VALUES (1467, 'Joe Black', 'Healthy Clinic', '456 Oak Street', 'www.healthyclinic.com');
COMMIT;
```

Script Output

Task completed in 0.051 seconds

1 row inserted.

Commit complete.

Type here to search

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Connections

- ISM 6217-DASARI
 - Tables (Filtered)
 - ALL_SALES
 - ALL_SALES2
 - ALL_SALES3
 - AUTHOR
 - BOOKAUTHOR
 - BOOKS
 - COUPONS
 - CUSTOMERS
 - CUSTOMERS_1LDB
 - DIVISIONS
 - DOCTOR_INFO
 - EMPLOYEES
 - EMPLOYEES2
 - EMPLOYEES3
 - INVOICE_INFO
 - JOBS
 - JY_EMPLOYEES
 - MORE_EMPLOYEES
 - MORE_PRODUCTS
 - NEW_CATEGORY
 - NEW3
 - ORDER_STATUS
 - ORDERITEMS_1LDB
 - ORDERS_1LDB
 - PATIENT_INFO
 - PRICE_INFO

Reports

- All Reports
- Analytic View Reports
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- Data Modeler Reports

Welcome Page

Worksheet Query Builder

```
INSERT INTO invoice_info (invoice_number, invoice_date, due_date, patient_number, doctor_id)
VALUES ('INV-2023-001', TO_DATE('06-15-2023', 'MM-DD-YYYY'), TO_DATE('07-15-2023', 'MM-DD-YYYY'), 5618, 1467);
COMMIT;
```

Script Output

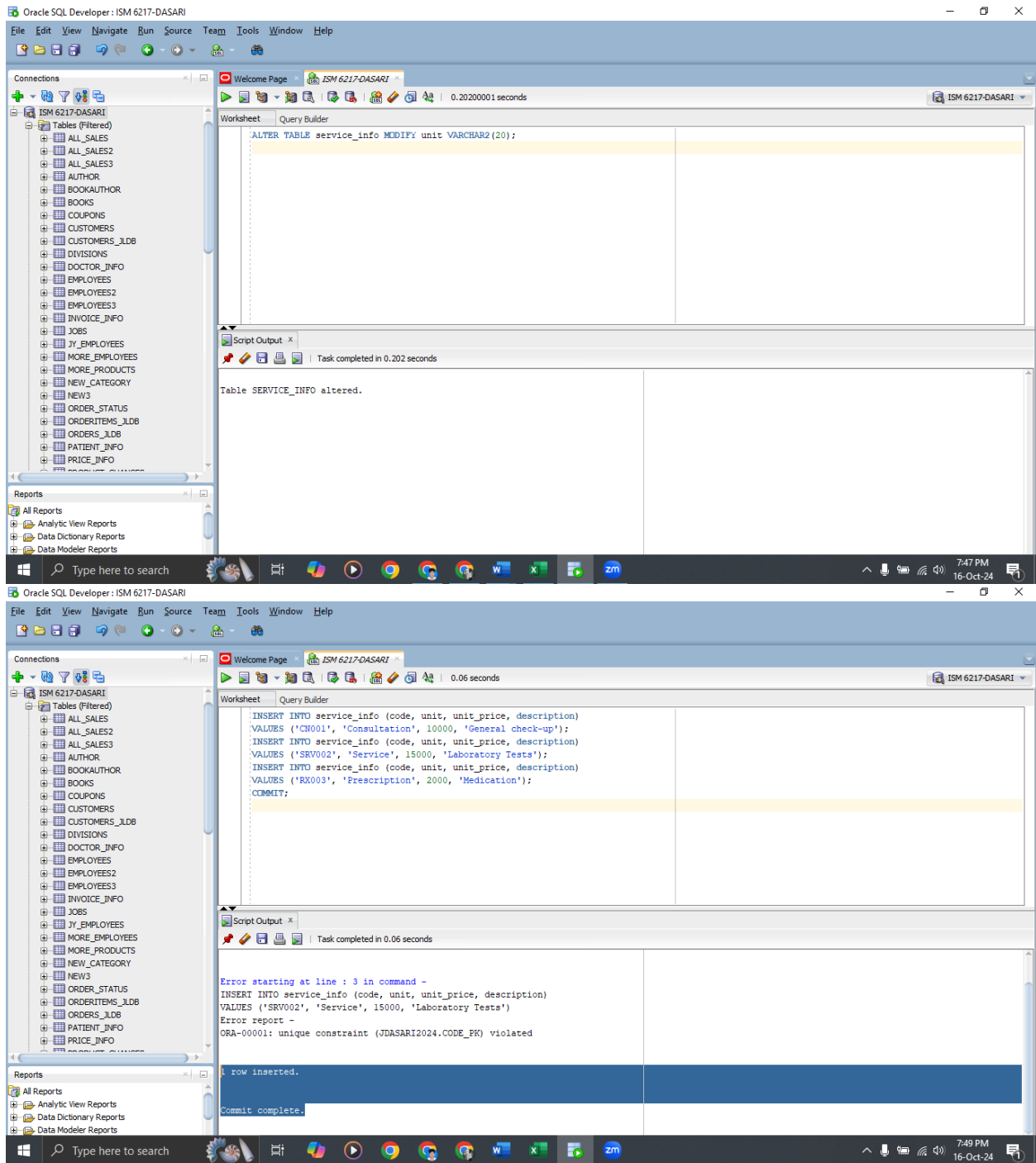
Task completed in 0.042 seconds

1 row inserted.

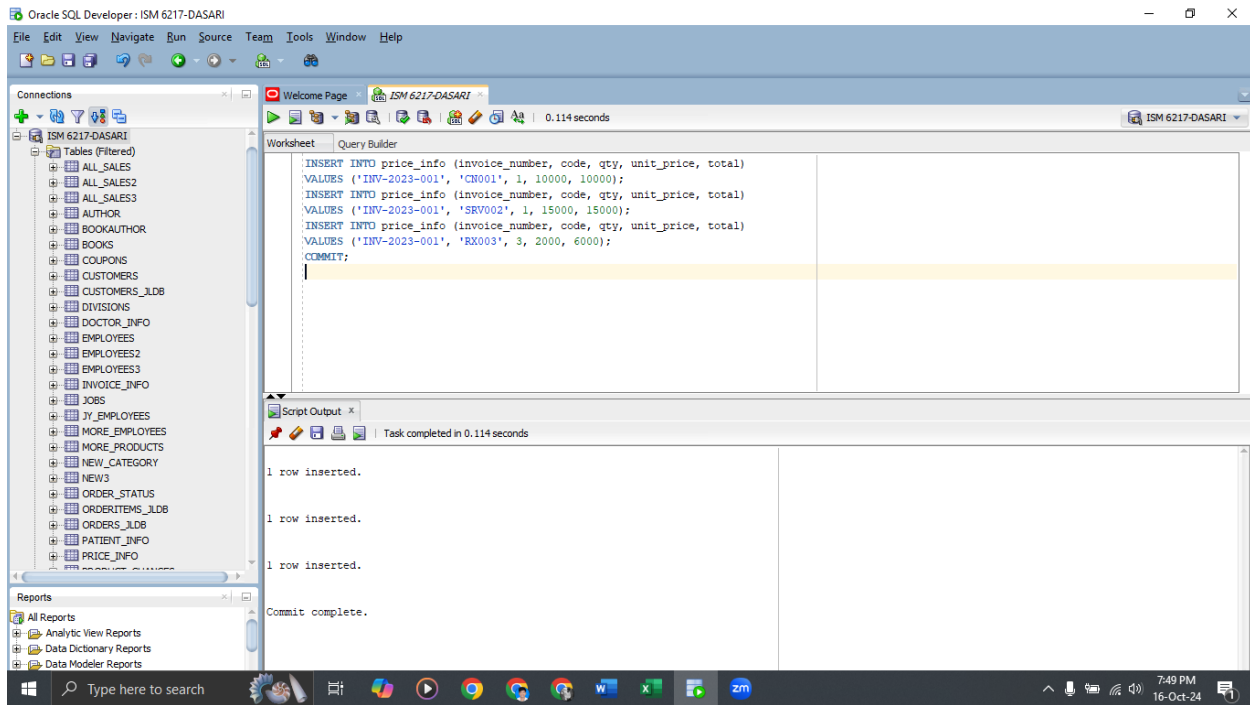
Commit complete.

Type here to search

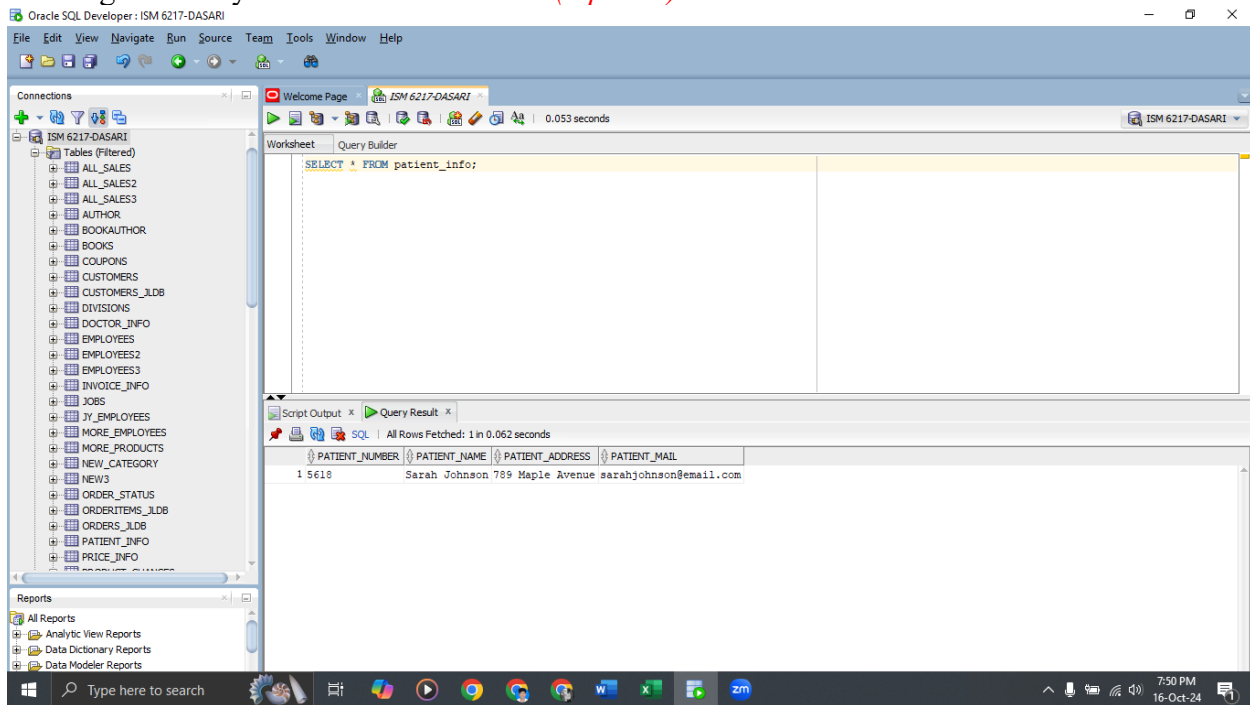
7:45 PM 16-Oct-24



I got error for values again I altered the size and executed again I got correct value in table.



4. Query each of the Tables using the Select * query and verify the data. Paste the SQL and results showing the data you inserted in the table. (2 points)



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Connections

- ISM 6217-DASARI
 - Tables (Filtered)
 - ALL_SALES
 - ALL_SALES2
 - ALL_SALES3
 - AUTHOR
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 - BOOKS
 - COUPONS
 - CUSTOMERS
 - CUSTOMERS_1LDB
 - DIVISIONS
 - DOCTOR_INFO
 - EMPLOYEES
 - EMPLOYEES2
 - EMPLOYEES3
 - INVOICE_INFO
 - JOBS
 - JY_EMPLOYEES
 - MORE_EMPLOYEES
 - MORE_PRODUCTS
 - NEW_CATEGORY
 - NEW3
 - ORDER_STATUS
 - ORDERITEMS_1LDB
 - ORDERS_1LDB
 - PATIENT_INFO
 - PRICE_INFO

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports

Welcome Page

Worksheet Query Builder

```
SELECT * FROM doctor_info;
```

Script Output x Query Result x

SQL All Rows Fetched: 1 in 0.004 seconds

DOCTOR_ID	DOCTOR_NAME	CLINIC_NAME	CLINIC_ADDRESS	CLINIC_WEBSITE
1	1467 Joe Black	Healthy Clinic	456 Oak Street	www.healthyclinic.com

Type here to search

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Connections

- ISM 6217-DASARI
 - Tables (Filtered)
 - ALL_SALES
 - ALL_SALES2
 - ALL_SALES3
 - AUTHOR
 - BOOKAUTHOR
 - BOOKS
 - COUPONS
 - CUSTOMERS
 - CUSTOMERS_1LDB
 - DIVISIONS
 - DOCTOR_INFO
 - EMPLOYEES
 - EMPLOYEES2
 - EMPLOYEES3
 - INVOICE_INFO
 - JOBS
 - JY_EMPLOYEES
 - MORE_EMPLOYEES
 - MORE_PRODUCTS
 - NEW_CATEGORY
 - NEW3
 - ORDER_STATUS
 - ORDERITEMS_1LDB
 - ORDERS_1LDB
 - PATIENT_INFO
 - PRICE_INFO

Reports

- All Reports
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- Data Dictionary Reports
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Welcome Page

Worksheet Query Builder

```
SELECT * FROM invoice_info;
```

Script Output x Query Result x

SQL All Rows Fetched: 1 in 0.02 seconds

INVOICE_NUMBER	INVOICE_DATE	DUE_DATE	PATIENT_NUMBER	DOCTOR_ID
1 INV-2023-001	15-JUN-23	15-JUL-23	5618	1467

Type here to search

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Connections

Oracle Connections

ISM 6217-DASARI

Tables (Filtered)

- ALL_SALES
- ALL_SALES2
- ALL_SALES3
- AUTHOR
- BOOKAUTHOR
- BOOKS
- COUPONS
- CUSTOMERS
- CUSTOMERS_3LDB
- DIVISIONS
- DOCTOR_INFO
- EMPLOYEES
- EMPLOYEES2
- EMPLOYEES3
- INVOICE_INFO
- JOBS
- JY_EMPLOYEES
- MORE_EMPLOYEES
- MORE_PRODUCTS
- NEW_CATEGORY
- NEW3
- ORDER_STATUS
- ORDERITEMS_3LDB
- ORDERS_3LDB
- PATIENT_INFO

Reports

All Reports

Analytic View Reports

Data Dictionary Reports

Data Modeler Reports

Worksheet

Query Builder

SELECT * FROM service_info;

Script Output

Query Result

SQL | All Rows Fetched: 3 in 0.003 seconds

	CODE	UNIT	UNIT_PRICE	DESCRIPTION
1	SRV002	Service	15000	Laboratory Tests
2	CN001	Consultation	10000	General check-up
3	RX003	Prescription	2000	Medication

Type here to search

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Connections

Oracle Connections

ISM 6217-DASARI

Tables (Filtered)

- ALL_SALES
- ALL_SALES2
- ALL_SALES3
- AUTHOR
- BOOKAUTHOR
- BOOKS
- COUPONS
- CUSTOMERS
- CUSTOMERS_3LDB
- DIVISIONS
- DOCTOR_INFO
- EMPLOYEES
- EMPLOYEES2
- EMPLOYEES3
- INVOICE_INFO
- JOBS
- JY_EMPLOYEES
- MORE_EMPLOYEES
- MORE_PRODUCTS
- NEW_CATEGORY
- NEW3
- ORDER_STATUS
- ORDERITEMS_3LDB
- ORDERS_3LDB
- PATIENT_INFO

Reports

All Reports

Analytic View Reports

Data Dictionary Reports

Data Modeler Reports

Worksheet

Query Builder

SELECT * FROM price_info;

Script Output

Query Result

SQL | All Rows Fetched: 3 in 0.003 seconds

	INVOICE_NUMBER	CODE	QTY	UNIT_PRICE	TOTAL
1	INV-2023-001	CN001	1	10000	10000
2	INV-2023-001	SRV002	1	15000	15000
3	INV-2023-001	RX003	3	2000	6000

Type here to search

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Note: In case your table has a foreign key then follow these pointers:

- Make sure you create 'first' the table where it is a PK.
- FK constraint name should be same as PK constraint name – for example invoice_num_pk, invoice_num_fk... .. more examples...