

STORED PROCEDURES – LABS

The screenshot displays an Oracle database management tool interface. On the left, the 'Connections' pane shows a tree view of 'SagaraDB' tables, including ACCTMANAGER, ACCTMANAGER2, ALIASES, APPEALS, AQ\$_INTERNET_AGENT_PRIV, AQ\$_INTERNET_AGENTS, AQ\$_KEY_SHARD_MAP, AQ\$_QUEUE_TABLES, AQ\$_QUEUES, AQ\$_SCHEDULES, AUTHOR, BOOKS, COMPANY, and COURSES C0697697. Below this, the 'Reports' pane lists various report types like Analytic View Reports, Data Dictionary Reports, Data Modeler Reports, OLAP Reports, TimesTen Reports, and User Defined Reports.

The main workspace is divided into two tabs: 'Worksheet' and 'Query Builder'. The 'Worksheet' tab is active, showing a SQL script for creating or replacing a stored procedure named 'PRINT'. The script is as follows:

```
1 CREATE OR REPLACE PROCEDURE PRINT(TEXT IN VARCHAR2) IS
2 BEGIN
3   DBMS_OUTPUT.PUT_LINE(TEXT);
4 END;
5
6 BEGIN
7   PRINT('Hello World');
8 END;
```

The script is executed, and the 'Script Output' pane at the bottom shows the result: 'Hello World'. A status bar at the bottom right indicates 'Task completed in 0.039 seconds'.

Connections

Oracle Connections

SagaraDB

Tables (Filtered)

- ACCTMANAGER
- ACCTMANAGER2
- ALIASES
- APPEALS
- AQ\$_INTERNET_AGENT_PRIV
- AQ\$_INTERNET_AGENTS
- AQ\$_KEY_SHARD_MAP
- AQ\$_QUEUE_TABLES
- AQ\$_QUEUES
- AQ\$_SCHEDULES
- AUTHOR
- BOOKS
- COMPANY
- COURSES C0697697

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Worksheet

Query Builder

```
1 CREATE OR REPLACE PROCEDURE adjust_salary(  
2   in_employee_id IN EMPLOYEES.EMPLOYEE_ID%TYPE,  
3   in_percent IN NUMBER  
4 ) IS  
5 BEGIN  
6   -- update employee's salary  
7   UPDATE employees  
8     SET salary = salary + salary * in_percent / 100  
9     WHERE employee_id = in_employee_id;  
10 END;
```

Script Output x Query Result x

Task completed in 0.039 seconds

PL/SQL procedure successfully completed.

Procedure ADJUST_SALARY compiled

Connections

Oracle Connections

SagaraDB

Tables (Filtered)

- ACCTMANAGER
- ACCTMANAGER2
- ALIASES
- APPEALS
- AQ\$_INTERNET_AGENT_PRIV
- AQ\$_INTERNET_AGENTS
- AQ\$_KEY_SHARD_MAP
- AQ\$_QUEUE_TABLES
- AQ\$_QUEUES
- AQ\$_SCHEDULES
- AUTHOR
- BOOKS
- COMPANY
- COURSES C0697697

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Worksheet

Query Builder

```
1  
2 BEGIN  
3   adjust_salary(101,10);  
4 END;  
5  
6 select * from employees;  
7  
8
```

Script Output x Query Result x

SQL | Fetched 50 rows in 0.003 seconds

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	MANAGER
1	100	Steven	King	SKING	515.123...	03-06...	AD...	22617.6	(n
2	101	Neena	Kochhar	NKOCHHAR	515.123...	05-09...	AD...	17000	1
3	102	Lex	De Haan	LDEHAAN	515.123...	01-01...	AD...	17000	1
4	103	Alexander	Hunold	AHUNOLD	590.423...	06-01...	IT...	9000	1
5	104	Bruce	Ernst	BERNST	590.423...	07-05...	IT...	6000	1
6	105	David	Austin	DAUSTIN	590.423...	05-06...	IT...	4800	1
7	106	Valli	Pataballa	VPATABAL	590.423...	06-02...	IT...	4800	1

Connections

Oracle Connections

SagaraDB

Tables (Filtered)

- ACCTMANAGER
- ACCTMANAGER2
- ALIASES
- APPEALS
- AQ\$_INTERNET_AGENT_PRIV
- AQ\$_INTERNET_AGENTS
- AQ\$_KEY_SHARD_MAP
- AQ\$_QUEUE_TABLES
- AQ\$_QUEUES
- AQ\$_SCHEDULES
- AUTHOR
- BOOKS
- COMPANY
- COURSES C0697697

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Welcome Page

SagaraDB

STUDENT

Worksheet

Query Builder

```

1
2 BEGIN
3   adjust_salary(101,10);
4 END;
5
6 select * from employees;
7
8

```

Script Output

Query Result

Task completed in 0.04 seconds

PL/SQL procedure successfully completed.

Connections

Oracle Connections

SagaraDB

Tables (Filtered)

- ACCTMANAGER
- ACCTMANAGER2
- ALIASES
- APPEALS
- AQ\$_INTERNET_AGENT_PRIV
- AQ\$_INTERNET_AGENTS
- AQ\$_KEY_SHARD_MAP
- AQ\$_QUEUE_TABLES
- AQ\$_QUEUES
- AQ\$_SCHEDULES
- AUTHOR
- BOOKS
- COMPANY
- COURSES C0697697

Reports

- All Reports
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- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Welcome Page

SagaraDB

STUDENT

Worksheet

Query Builder

```

1
2 BEGIN
3   adjust_salary(101,10);
4 END;
5
6 select * from employees;
7
8

```

Script Output

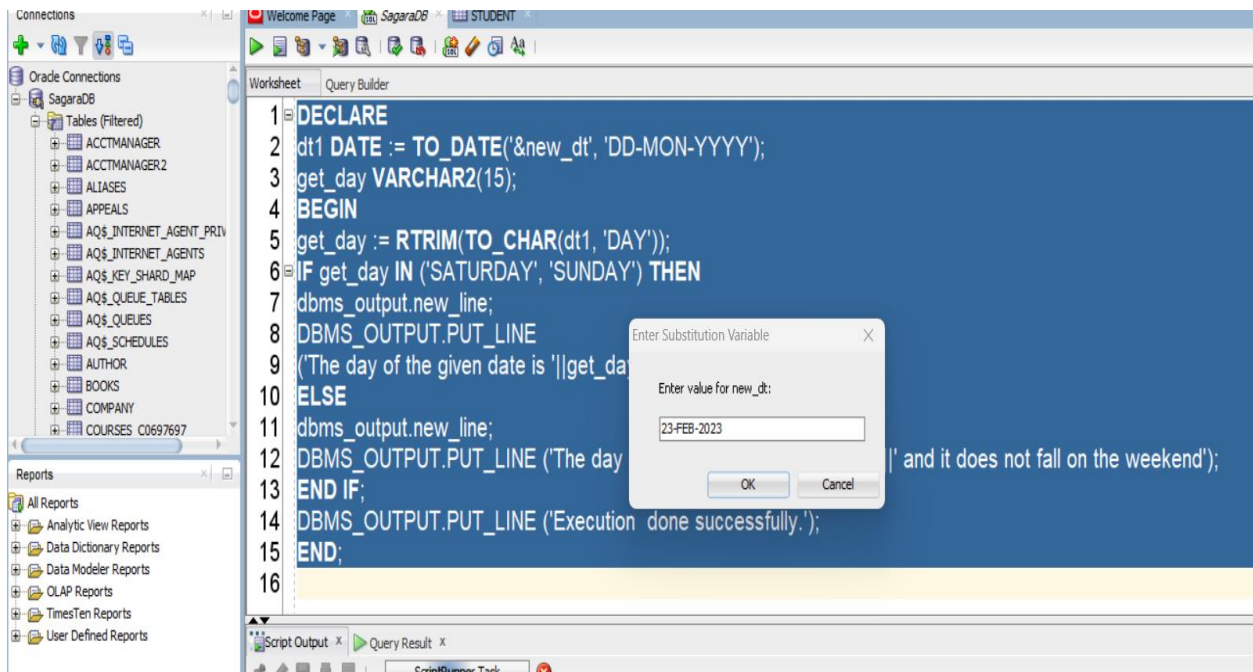
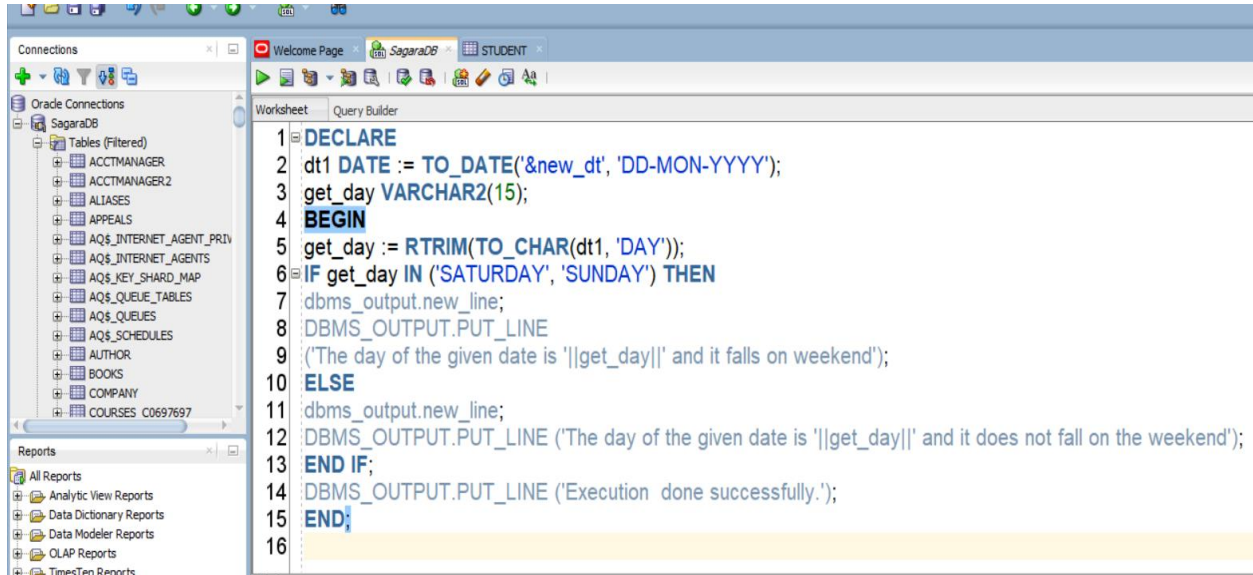
Query Result

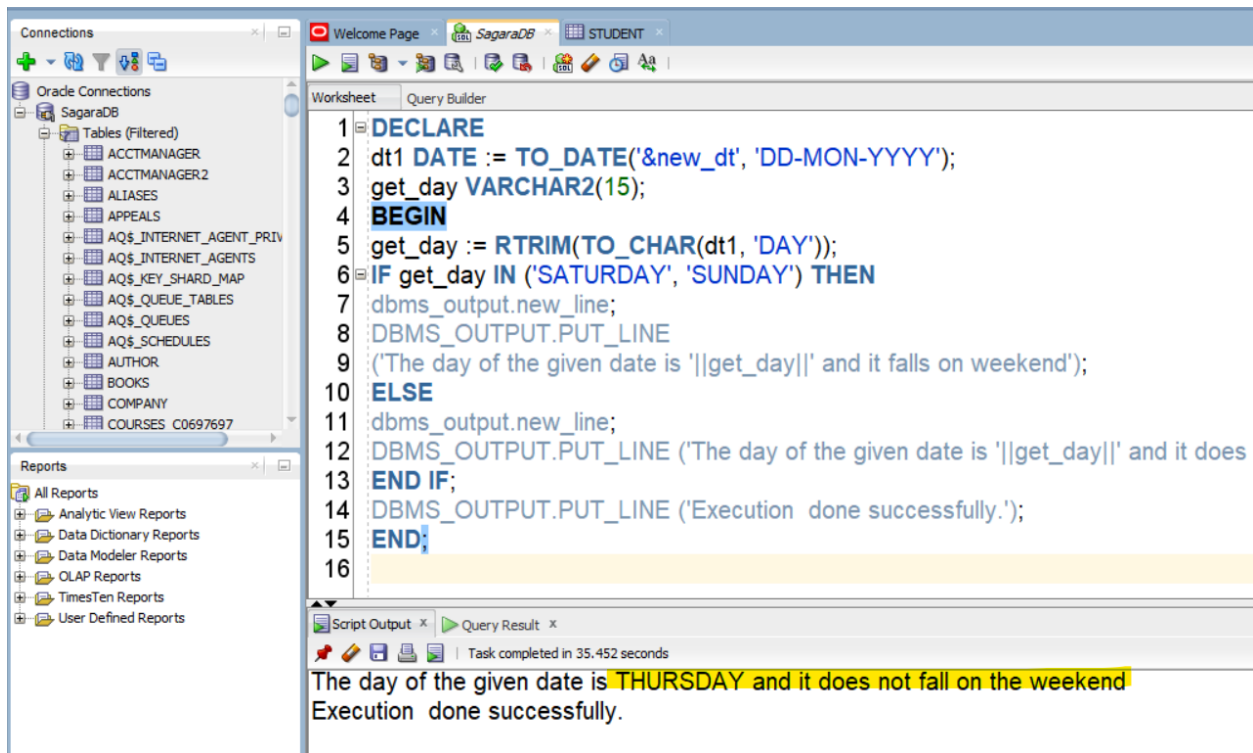
SQL

Fetches 50 rows in 0.004 seconds

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	MANAGER_ID	DEPARTMENT_ID
1	100	Steven	King	SKING	515.123....	03-06...	AD...	22617.6	(null)	
2	101	Neena	Kochhar	NKOCHHAR	515.123....	05-09...	AD...	18700	100	
3	102	Lex	De Haan	LDEHAAN	515.123....	01-01...	AD...	17000	100	
4	103	Alexander	Hunold	AHUNOLD	590.423....	06-01...	IT...	9000	102	
5	104	Bruce	Ernst	BERNST	590.423....	07-05...	IT...	6000	103	
6	105	David	Austin	DAUSTIN	590.423....	05-06...	IT...	4800	103	
7	106	Valli	Pataballa	VPATABAL	590.423....	06-02...	IT...	4800	103	
8	107	Diana	Lorentz	DLORENTZ	590.423....	07-02...	IT...	4200	103	
9	108	Nancy	Greenberg	NGREENBE	515.124....	02-08...	FI...	12008	101	

Write a PL/SQL program to check whether a date falls on weekend i.e. SATURDAY or SUNDAY.





Connections

Oracle Connections

SagaraDB

Tables (Filtered)

- ACCTMANAGER
- ACCTMANAGER2
- ALIASES
- APPEALS
- AQ\$_INTERNET_AGENT_PRIV
- AQ\$_INTERNET_AGENTS
- AQ\$_KEY_SHARD_MAP
- AQ\$_QUEUE_TABLES
- AQ\$_QUEUES
- AQ\$_SCHEDULES
- AUTHOR
- BOOKS
- COMPANY
- COURSES C0697697

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Welcome Page | SagaraDB | STUDENT

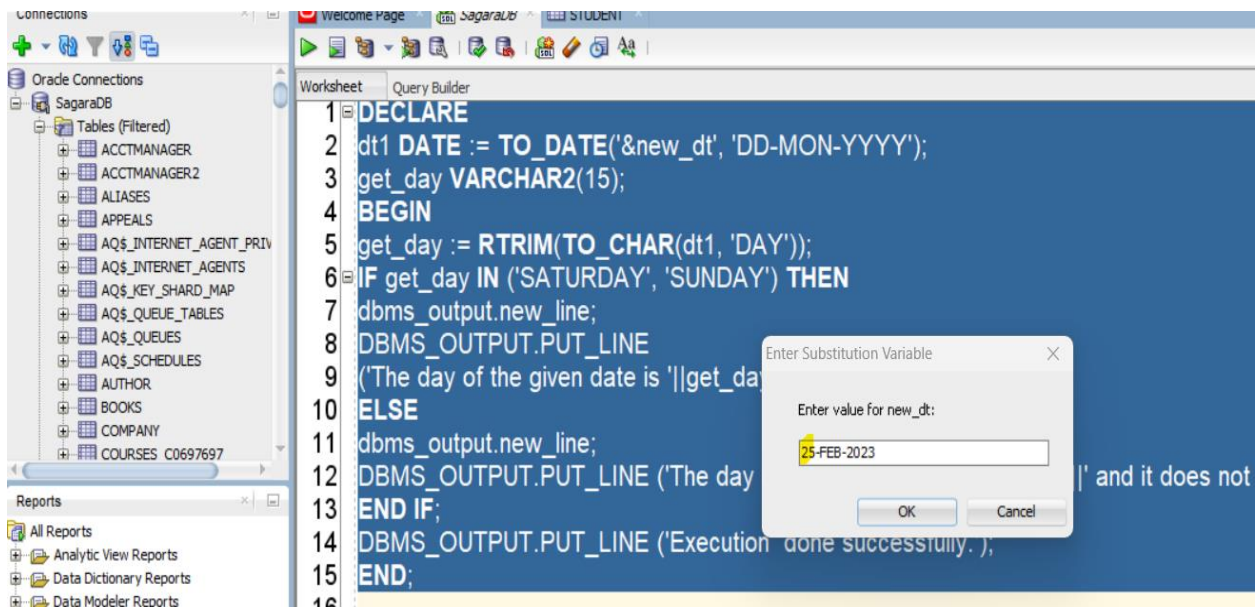
Worksheet | Query Builder

```
1 DECLARE
2 dt1 DATE := TO_DATE('&new_dt', 'DD-MON-YYYY');
3 get_day VARCHAR2(15);
4 BEGIN
5 get_day := RTRIM(TO_CHAR(dt1, 'DAY'));
6 IF get_day IN ('SATURDAY', 'SUNDAY') THEN
7 dbms_output.new_line;
8 DBMS_OUTPUT.PUT_LINE
9 ('The day of the given date is '||get_day||' and it falls on weekend');
10 ELSE
11 dbms_output.new_line;
12 DBMS_OUTPUT.PUT_LINE ('The day of the given date is '||get_day||' and it does
13 END IF;
14 DBMS_OUTPUT.PUT_LINE ('Execution done successfully. ');
15 END;
```

Script Output | Query Result

Task completed in 35.452 seconds

The day of the given date is THURSDAY and it does not fall on the weekend
Execution done successfully.



Connections

Oracle Connections

SagaraDB

Tables (Filtered)

- ACCTMANAGER
- ACCTMANAGER2
- ALIASES
- APPEALS
- AQ\$_INTERNET_AGENT_PRIV
- AQ\$_INTERNET_AGENTS
- AQ\$_KEY_SHARD_MAP
- AQ\$_QUEUE_TABLES
- AQ\$_QUEUES
- AQ\$_SCHEDULES
- AUTHOR
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- COMPANY
- COURSES C0697697

Reports

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

Welcome Page | SagaraDB | STUDENT

Worksheet | Query Builder

```
1 DECLARE
2 dt1 DATE := TO_DATE('&new_dt', 'DD-MON-YYYY');
3 get_day VARCHAR2(15);
4 BEGIN
5 get_day := RTRIM(TO_CHAR(dt1, 'DAY'));
6 IF get_day IN ('SATURDAY', 'SUNDAY') THEN
7 dbms_output.new_line;
8 DBMS_OUTPUT.PUT_LINE
9 ('The day of the given date is '||get_da
10 ELSE
11 dbms_output.new_line;
12 DBMS_OUTPUT.PUT_LINE ('The day
13 END IF;
14 DBMS_OUTPUT.PUT_LINE ('Execution done successfully. ');
15 END;
```

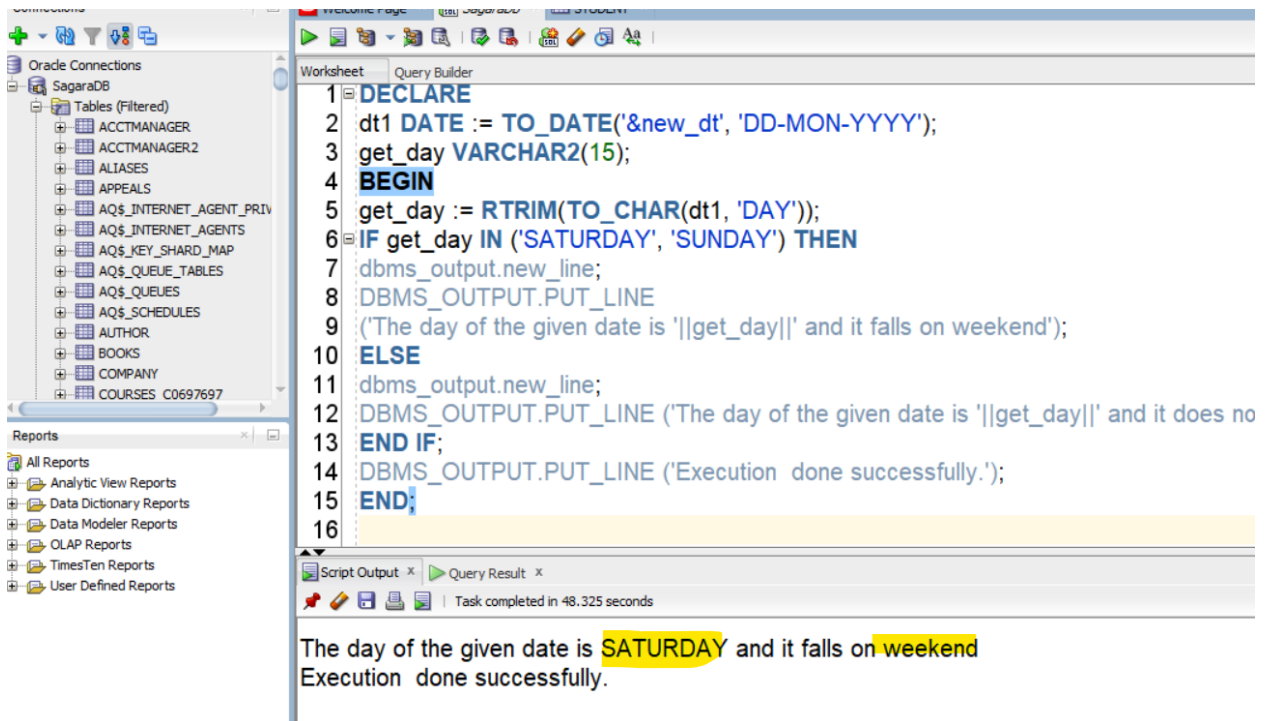
Enter Substitution Variable

Enter value for new_dt:

25-FEB-2023

OK Cancel

|' and it does not



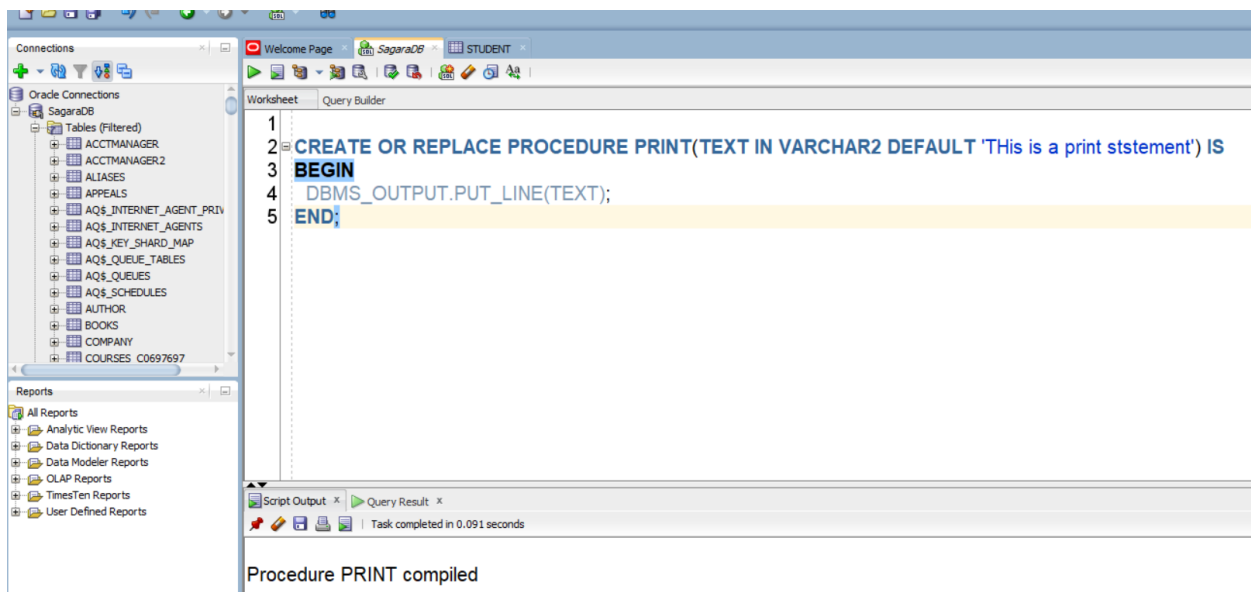
The screenshot shows the SQL Developer interface with the 'Query Builder' tab active. The left pane displays the 'Oracle Connections' tree with 'SagaraDB' selected. The main pane shows a PL/SQL script with the following code:

```
1 DECLARE
2 dt1 DATE := TO_DATE('&new_dt', 'DD-MON-YYYY');
3 get_day VARCHAR2(15);
4 BEGIN
5 get_day := RTRIM(TO_CHAR(dt1, 'DAY'));
6 IF get_day IN ('SATURDAY', 'SUNDAY') THEN
7 dbms_output.new_line;
8 DBMS_OUTPUT.PUT_LINE
9 ('The day of the given date is '||get_day||' and it falls on weekend');
10 ELSE
11 dbms_output.new_line;
12 DBMS_OUTPUT.PUT_LINE ('The day of the given date is '||get_day||' and it does no
13 END IF;
14 DBMS_OUTPUT.PUT_LINE ('Execution done successfully. ');
15 END;
```

The 'Script Output' pane at the bottom shows the results of the execution:

```
Script Output x Query Result x
Task completed in 48.325 seconds

The day of the given date is SATURDAY and it falls on weekend
Execution done successfully.
```



The screenshot shows the SQL Developer interface with the 'Query Builder' tab active. The left pane displays the 'Oracle Connections' tree with 'SagaraDB' selected. The main pane shows a PL/SQL script with the following code:

```
1
2 CREATE OR REPLACE PROCEDURE PRINT(TEXT IN VARCHAR2 DEFAULT 'This is a print ststement') IS
3 BEGIN
4 DBMS_OUTPUT.PUT_LINE(TEXT);
5 END;
```

The 'Script Output' pane at the bottom shows the results of the execution:

```
Script Output x Query Result x
Task completed in 0.091 seconds

Procedure PRINT compiled
```


Connections

Oracle Connections

SagaraDB

Tables (Filtered)

- ACCTMANAGER
- ACCTMANAGER2
- ALIASES
- APPEALS
- AQ\$_INTERNET_AGENT_PRIV
- AQ\$_INTERNET_AGENTS
- AQ\$_KEY_SHARD_MAP
- AQ\$_QUEUE_TABLES
- AQ\$_QUEUES
- AQ\$_SCHEDULES
- AUTHOR
- BOOKS
- COMPANY
- COURSES C0697697

Reports

All Reports

- Analytic View Reports
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- User Defined Reports

Welcome Page | Sagaradb | STUDENT

Worksheet | Query Builder

```
1  
2 CREATE OR REPLACE PROCEDURE PRINT(TEXT IN VARCHAR2 DEFAULT 'This is a print ststement') IS  
3 BEGIN  
4   DBMS_OUTPUT.PUT_LINE(TEXT);  
5 END;  
6  
7 exec print('Hello')  
8  
9 exec print()
```

Script Output | Query Result

Task completed in 0.045 seconds

Hello

Connections

Oracle Connections

SagaraDB

Tables (Filtered)

- ACCTMANAGER
- ACCTMANAGER2
- ALIASES
- APPEALS
- AQ\$_INTERNET_AGENT_PRIV
- AQ\$_INTERNET_AGENTS
- AQ\$_KEY_SHARD_MAP
- AQ\$_QUEUE_TABLES
- AQ\$_QUEUES
- AQ\$_SCHEDULES
- AUTHOR
- BOOKS
- COMPANY
- COURSES C0697697

Reports

All Reports

- Analytic View Reports
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Welcome Page | Sagaradb | STUDENT

Worksheet | Query Builder

```
1  
2 CREATE OR REPLACE PROCEDURE PRINT(TEXT IN VARCHAR2 DEFAULT 'This is a print ststement') IS  
3 BEGIN  
4   DBMS_OUTPUT.PUT_LINE(TEXT);  
5 END;  
6  
7 exec print('Hello')  
8  
9 exec print()
```

Script Output | Query Result

Task completed in 0.036 seconds

This is a print ststement