

Task # 02



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Task no 2**

Oracle Table Create/Insert/Update/Drop/Alter Queries Demo.

Step1:

Make Table named as “DATADEMO”.

The screenshot shows a database management tool interface. At the top, there are three tabs: 'Lab3&4_Tasks.sql', 'Welcome Page', and 'Task2_DW'. Below the tabs is a toolbar with various icons. The main area is divided into two sections: 'Worksheet' and 'Query Builder'. The 'Worksheet' section contains a SQL script to create a table named 'DATADEMO'. The script is as follows:

```
CREATE TABLE DATADEMO (  
    EmployeeID INT PRIMARY KEY,  
    FirstName VARCHAR2(50),  
    LastName VARCHAR2(50),  
    JobTitle VARCHAR2(50),  
    Salary NUMBER(10,2),  
    DepartmentID INT  
);
```

The 'Query Builder' section is currently empty. Below the main area is a 'Script Output' section. It shows the result of the SQL script execution: 'Table DATADEMO created.' The output also indicates that the task was completed in 0.524 seconds.

Step2:
Insert Data in DATADEMO Table.

Lab3&4_Tasks.sql Welcome Page Task2_DW Lab2 DATADEMO

Worksheet Query Builder

```
INSERT INTO DATADEMO VALUES (1, 'Hamid', 'Ishfaq', 'Data_Scientist', 600000, 1);
INSERT INTO DATADEMO VALUES (2, 'Muhammad', 'Nadeem', 'Data_Analyst', 500000, 2);
INSERT INTO DATADEMO VALUES (3, 'Wahab', 'Khadim', 'Data_Scientist', 800000, 3);
INSERT INTO DATADEMO VALUES (4, 'Sahil', 'Ranmbail', 'Data_Engineer', 900000, 4);
INSERT INTO DATADEMO VALUES (5, 'Ayesha', 'Ashfaq', 'Data_Scientist', 700000, 5);
INSERT INTO DATADEMO VALUES (6, 'Hamid', 'Ishfaq', 'Data_Scientist', 80000, 6);
INSERT INTO DATADEMO VALUES (7, 'Muhammad', 'Nadeem', 'Data_Analyst', 80000, 7);
INSERT INTO DATADEMO VALUES (8, 'Wahab', 'Khadim', 'Data_Scientist', 80000, 8);
INSERT INTO DATADEMO VALUES (9, 'Sahil', 'Ranmbail', 'Data_Engineer', 80000, 9);
INSERT INTO DATADEMO VALUES (10, 'Ayesha', 'Ashfaq', 'Data_Scientist', 80000, 10);
sni
```

Script Output x Query Result x

Task completed in 0.117 seconds

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

Data is Inserted.

Step3:
Make new “Department” Table and inserted rows.

Lab3&4_Tasks.sql Welcome Page Task2_DW Lab2 DATADEMO

Worksheet Query Builder

```
INSERT INTO Department VALUES (1, 'IT');
INSERT INTO Department VALUES (2, 'HR');
INSERT INTO Department VALUES (3, 'CS');
INSERT INTO Department VALUES (4, 'DS');
```

Script Output x Query Result x

Task completed in 0.061 seconds

*Action:

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

Then UPDATE “DATADEMO” Table on the basis of condition.

The screenshot displays the SQL Server Enterprise Manager interface. The top pane shows two SQL queries in the Query Builder:

```
UPDATE DATADEMO SET Salary = 65000 WHERE EmployeeID = 1;
```

```
UPDATE Department SET DepartmentName = 'Information Technology' WHERE DepartmentID = 1;
```

The bottom pane shows the results of these queries in the Script Output window:

```
1 row inserted.
```

```
1 row inserted.
```

```
1 row updated.
```

```
1 row updated.
```

The status bar at the bottom indicates "Task completed in 0.056 seconds".

Then see complete DATADEMO Table:

Lab3&4_Tasks.sql x Welcome Page x Task2_DW x Lab2 x DATADEMO x

Worksheet Query Builder

```
select * from DATADEMO;
```

Script Output x Query Result x Query Result 1 x Query Result 2 x

SQL | All Rows Fetched: 9 in 0.017 seconds

	EMPLOYEEID	FIRSTNAME	LASTNAME	JOBTITLE	SALARY	DEPARTMENTID
1	1	Hamid	Ishfaq	Data_Scientist	65000	1
2	3	Wahab	Khadim	Data_Scientist	800000	3
3	4	Sahil	Ranmbail	Data_Engineer	900000	4
4	5	Ayesha	Ashfaq	Data_Scientist	700000	5
5	6	Hamid	Ishfaq	Data_Scientist	80000	6
6	7	Muhammad	Nadeem	Data_Analyst	80000	7
7	8	Wahab	Khadim	Data_Scientist	80000	8
8	9	Sahil	Ranmbail	Data_Engineer	80000	9
9	10	Ayesha	Ashfaq	Data_Scientist	80000	10

Lab3&4_Tasks.sql x Welcome Page x Task2_DW x Lab2 x DATADEMO x

Worksheet Query Builder

```
select * from Department;
```

Script Output x Query Result x Query Result 1 x Query Result 2 x

SQL | All Rows Fetched: 3 in 0.004 seconds

	DEPARTMENTID	DEPARTMENTNAME
1	1	Information Technology
2	2	HR
3	4	DS

See Department Table.

Now Create another “depart” Table

The screenshot shows the Oracle SQL Developer interface. The top toolbar includes icons for running queries, saving, and other database functions. The main window is titled 'Worksheet' and contains a SQL script to create a table named 'depart'.

```
CREATE TABLE depart (
  DEPTNO INT PRIMARY KEY,
  DNAME VARCHAR(255),
  LOC VARCHAR(255)
);
```

Below the script, the 'Script Output' tab is active, showing the execution results. It indicates that the task was completed in 0.049 seconds. The output shows the SQL statement being executed, followed by an error report.

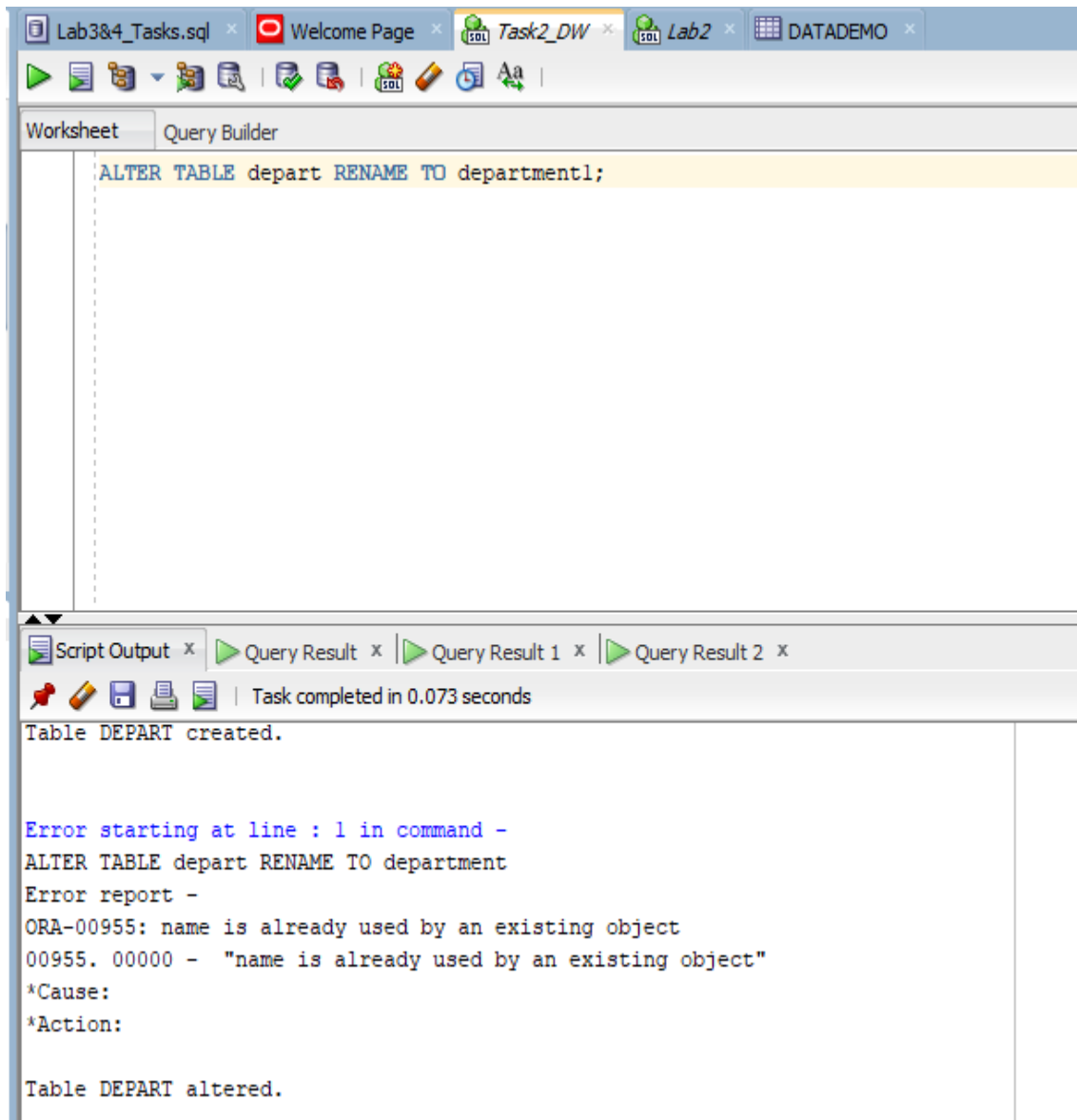
Script Output x | Query Result x | Query Result 1 x | Query Result 2 x

Task completed in 0.049 seconds

```
CREATE TABLE dept (
  DEPTNO INT PRIMARY KEY,
  DNAME VARCHAR(255),
  LOC VARCHAR(255)
)
Error report -
ORA-00955: name is already used by an existing object
00955. 00000 - "name is already used by an existing object"
*Cause:
*Action:

Table DEPART created.
```

Then we make Alter of this depart table and rename it as department1.



Then I add non-null values.

Lab3&4_Tasks.sql x Welcome Page x Task2_DW x Lab2 x DATADEMO x

0.044 seconds

Worksheet Query Builder

```
-- 2. Add a new column PINCODE with not null constraints  
ALTER TABLE department1  
ADD (PINCODE INT NOT NULL);
```

Script Output x

Task completed in 0.044 seconds

*Action:

Error starting at line : 2 in command -
ALTER TABLE department
ADD (PINCODE INT NOT NULL)
Error report -
ORA-01758: table must be empty to add mandatory (NOT NULL) column
01758. 00000 - "table must be empty to add mandatory (NOT NULL) column"
*Cause:
*Action:

Table DEPARTMENT1 altered.

Then I rename Column DNAME to DEPT_NAME.

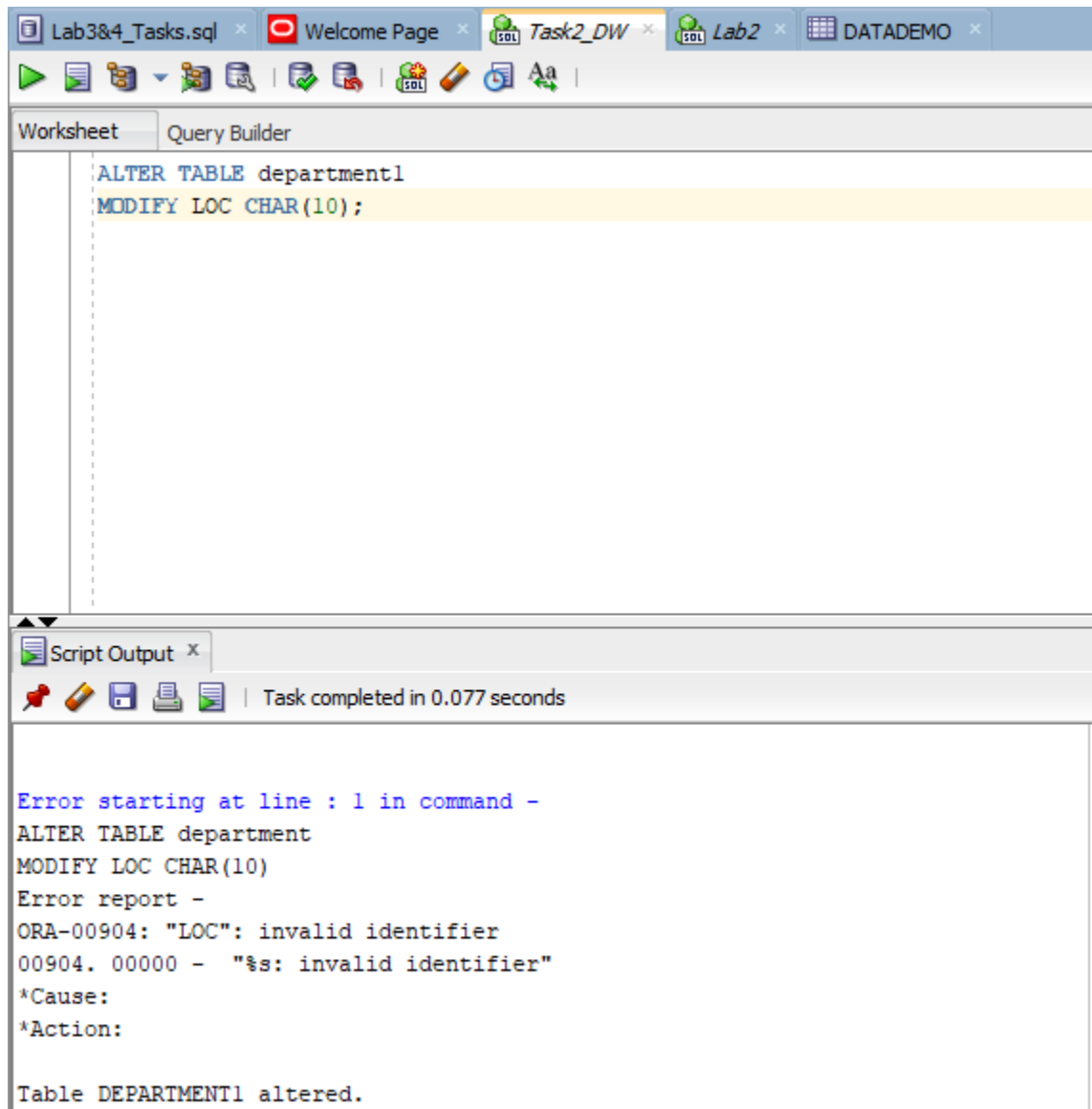
The screenshot displays the Oracle SQL Developer environment. The top toolbar includes icons for running queries, saving, and other standard database operations. The main window is divided into two panes: 'Worksheet' and 'Query Builder'. The 'Worksheet' pane contains the following SQL code:

```
ALTER TABLE department1  
RENAME COLUMN DNAME TO DEPT_NAME;
```

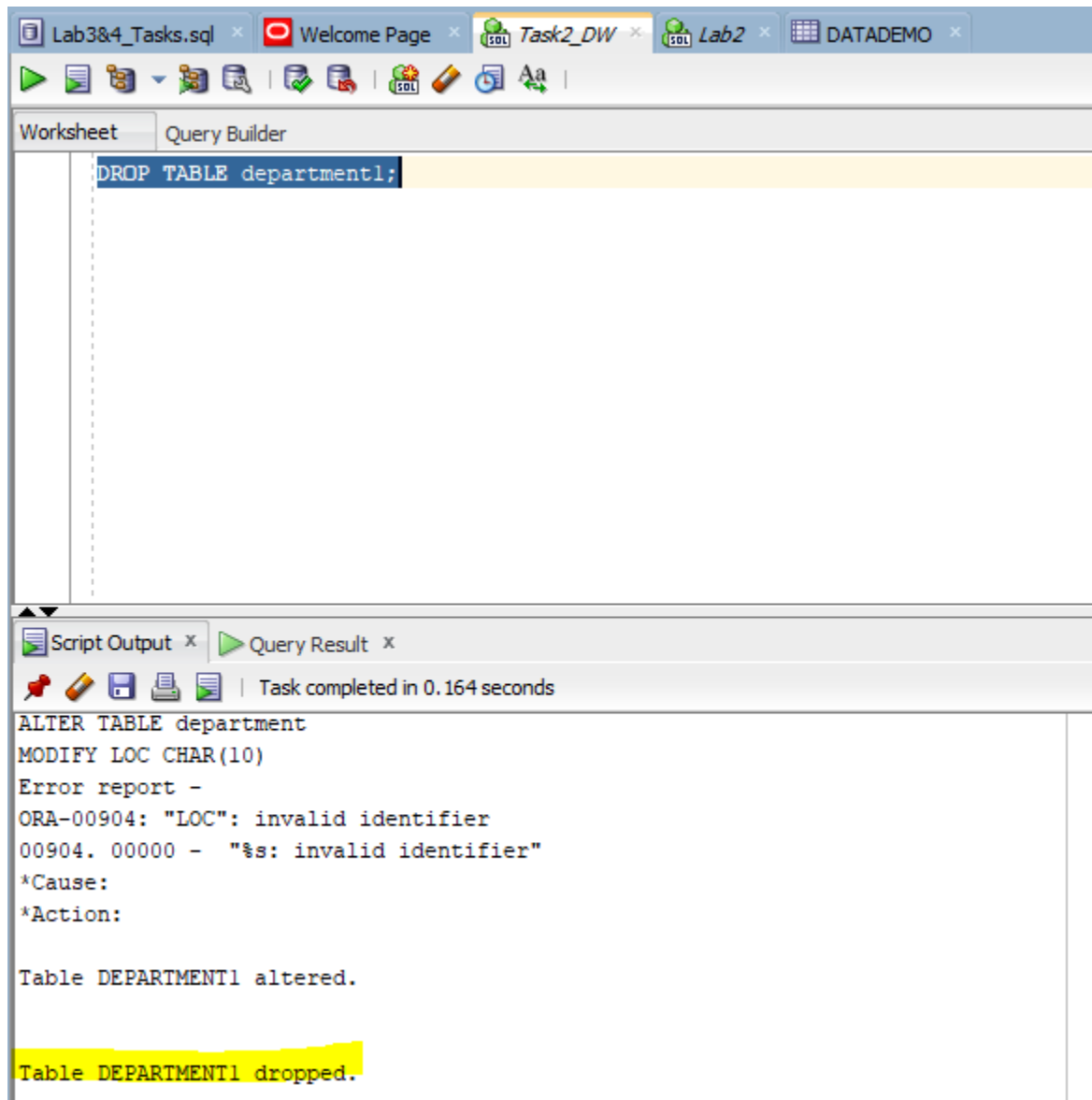
Below the main workspace, the 'Script Output' window is open, showing the execution results. It indicates that the task was completed in 0.047 seconds. The output text is as follows:

```
ALTER TABLE department  
ADD (PINCODE INT NOT NULL)  
Error report -  
ORA-01758: table must be empty to add mandatory (NOT NULL) column  
01758. 00000 - "table must be empty to add mandatory (NOT NULL) column"  
*Cause:  
*Action:  
  
Table DEPARTMENT1 altered.  
  
Table DEPARTMENT1 altered.
```

Then Modify LOC column character length into 10.



Then drop depaertment1 table.



End Task no 2.

This task is from Lab 3 & 4.