



# East West University

**Department of CSE**

**Course Code: CSE302**

**Course Title: Database System**

**Assignment:02**

**Date of Submission: 08/03/2025**

**Submitted To:**

**Mahmuda Rawnak Jahan(MRJ)**

**Lecturer**

**Department of CSE**

**Submitted By:**

**Abdul Wadud**

**ID:2022-2-60-133**

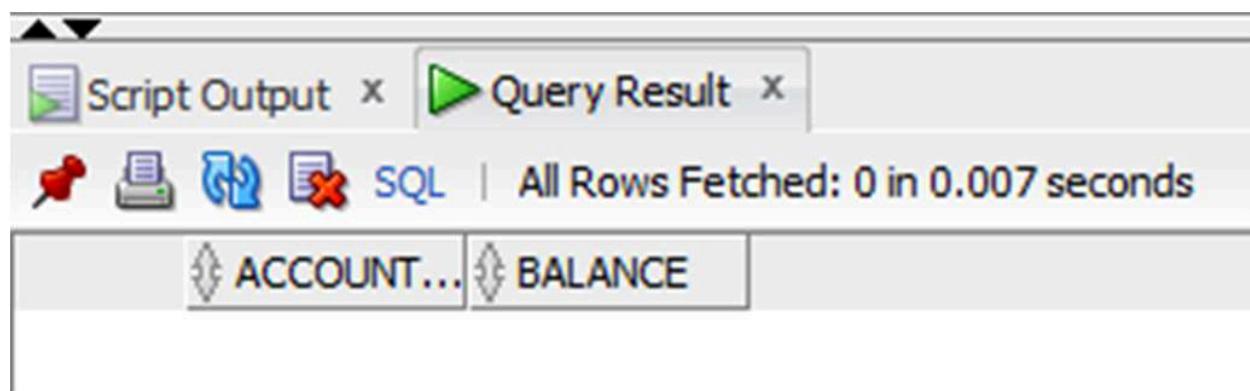
## **Lab Task-1**

**i.**

**Execution:**

```
CREATE TABLE account
(
    account_no char(5),
    balance number Not null,
    constraint act_no primary key (account_no),
    constraint balance_chk check (balance >= 0)
);
```

**Output:**



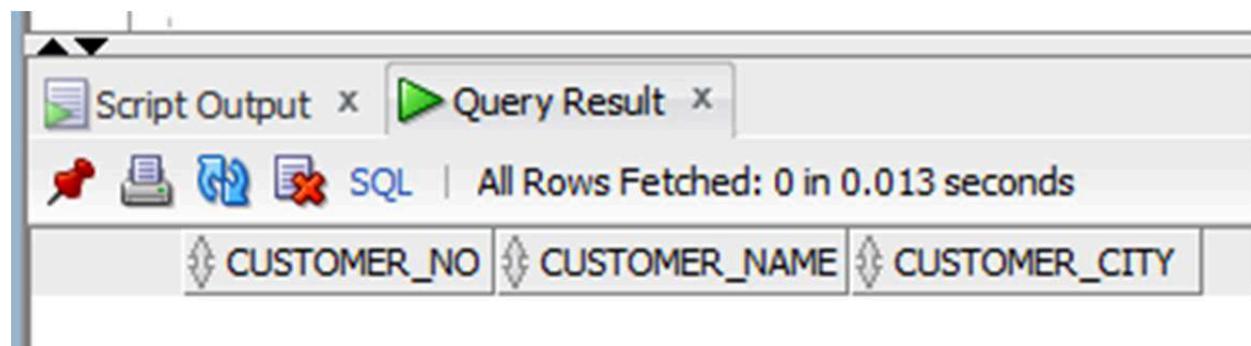
**ii.**

**Execution:**

```
CREATE TABLE customer
(
customer_no char(5),
customer_name varchar2(20) Not null,
customer_city varchar2(10),
constraint cus_no primary key (customer_no)

);
```

### Output:



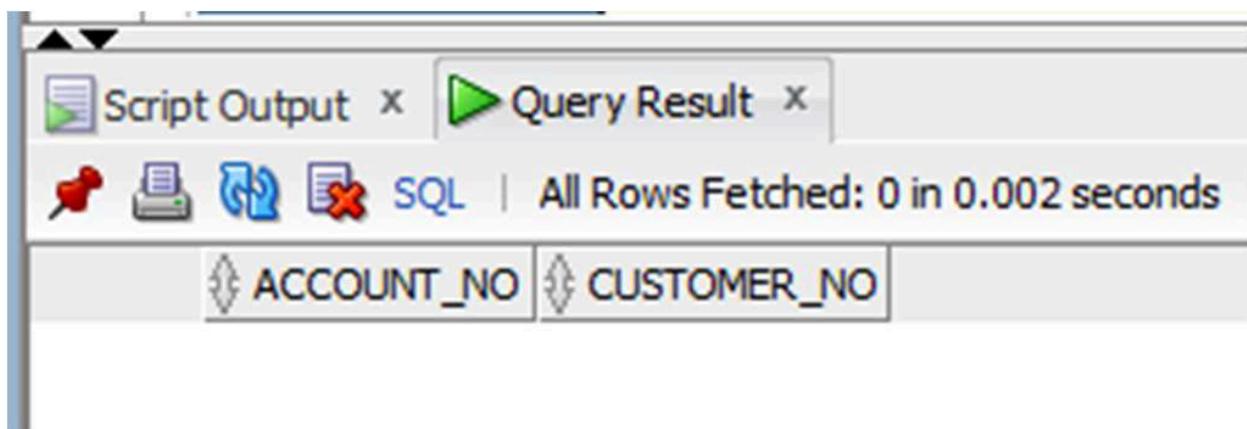
iii.

### Execution:

```
CREATE TABLE depositor
(
account_no char(5),
customer_no char(5),
constraint act_cus_no primary key (account_no, customer_no)

);
```

## Output:



## Lab Task-2

i.

### Execution:

```
|-----  
| Alter TABLE customer  
| Add date_of_birth date;  
|-----
```

## Output:

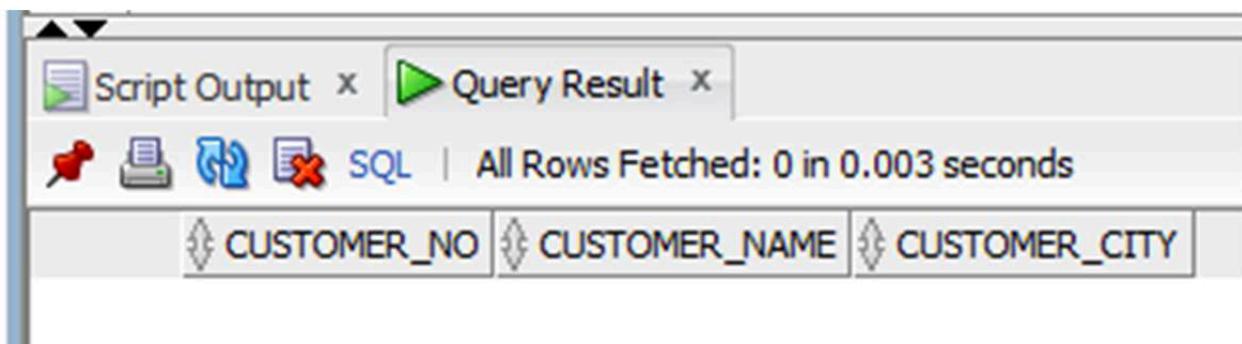
```
|-----  
| Alter TABLE customer  
| Add date_of_birth date;  
|-----
```

ii.

**Execution:**

```
Alter TABLE customer  
Drop column date_of_birth;
```

**Output:**

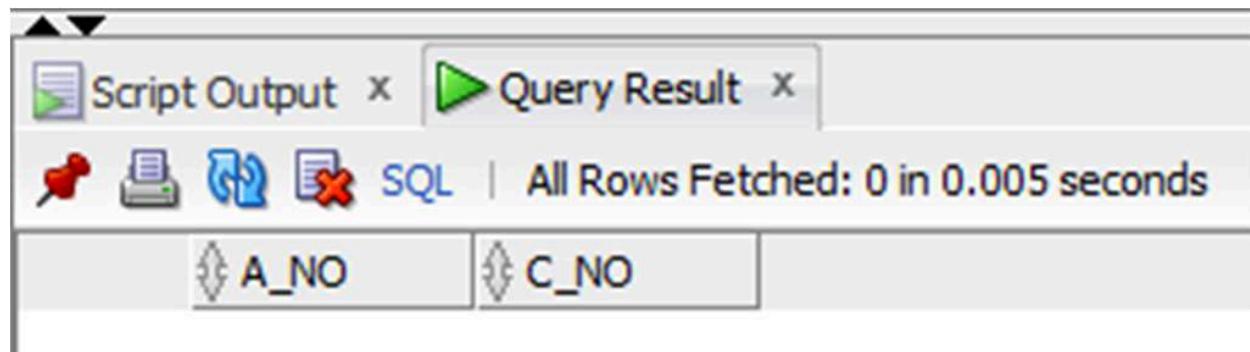


iii.

**Execution:**

```
| Alter TABLE depositor  
| Rename column account_no to a_no;  
  
|  
| Alter TABLE depositor  
| Rename column customer_no to c_no;
```

#### Output:



iv.

#### Execution:

```
| Alter TABLE depositor  
| Add constraint depositor_fk1  
| foreign key (a_no) references account (account_no);  
  
| Alter TABLE depositor  
| Add constraint depositor_fk2  
| foreign key (c_no) references customer (customer_no);
```

## Lab Task-3

i.

### Execution:

```
| Insert into account values ('A-101', 12000);  
| Insert into account values ('A-102', 6000);  
| Insert into account values ('A-103', 2500);
```

### Output:

The screenshot shows the Oracle SQL Developer interface. The top menu bar includes 'File', 'Edit', 'Tools', 'Help', and tabs for 'Script Output' and 'Query Result'. Below the tabs are icons for 'Run', 'Script', 'Database', 'SQL', and 'X'. The status bar indicates 'All Rows Fetched: 3 in 0.021 seconds'. The main area displays a table with two columns: 'ACCOUNT\_NO' and 'BALANCE'. The data is as follows:

	ACCOUNT_NO	BALANCE
1	A-101	12000
2	A-102	6000
3	A-103	2500

ii.

**Execution:**

```
Insert into customer values ('C-101', 'Alice', 'Dhaka');
Insert into customer values ('C-102', 'Annie', 'Dhaka');
Insert into customer values ('C-103', 'Bob', 'Chittagong');
Insert into customer values ('C-104', 'Charlie', 'Khulna');
```

**Output:**

The screenshot shows a MySQL Workbench interface with two tabs: 'Script Output' and 'Query Result'. The 'Query Result' tab is active, displaying a table with four rows of data. The table has three columns: CUSTOMER\_NO, CUSTOMER\_NAME, and CUSTOMER\_CITY. The data is as follows:

	CUSTOMER_NO	CUSTOMER_NAME	CUSTOMER_CITY
1	C-101	Alice	Dhaka
2	C-102	Annie	Dhaka
3	C-103	Bob	Chittagong
4	C-104	Charlie	Khulna

iii.

### Execution:

```
Insert into depositor values ('A-101', 'C-101');
Insert into depositor values ('A-103', 'C-102');
Insert into depositor values ('A-103', 'C-104');
Insert into depositor values ('A-102', 'C-103');
```

### Output:

The screenshot shows the MySQL Workbench interface with the 'Query Result' tab selected. The results of a query are displayed in a table:

	A_NO	C_NO
1	A-101	C-101
2	A-103	C-102
3	A-103	C-104
4	A-102	C-103

## Lab Task-4

i.

**Execution:**

```
SELECT customer_name, customer_city  
FROM customer;
```

**Output:**

The screenshot shows the Oracle SQL Developer interface. The top menu bar includes 'File', 'Edit', 'Tools', 'Help', and tabs for 'Script Output' and 'Query Result'. Below the tabs, there are icons for 'Run', 'Script', 'Execute', 'Stop', and 'SQL'. The status bar indicates 'All Rows Fetched: 4 in 0.004 seconds'. The main area displays a table with two columns: 'CUSTOMER\_NAME' and 'CUSTOMER\_CITY'. The data is as follows:

	CUSTOMER_NAME	CUSTOMER_CITY
1	Alice	Dhaka
2	Annie	Dhaka
3	Bob	Chittagong
4	Charlie	Khulna

ii.

**Execution:**

```
|:SELECT distinct customer_city  
|:FROM customer;
```

**Output:**

The screenshot shows a database interface with two tabs at the top: 'Script Output' and 'Query Result'. The 'Query Result' tab is active, indicated by a green play button icon. Below the tabs, there are several icons: a red heart, a printer, a blue document, a red X, and the word 'SQL'. To the right of these icons, the text 'All Rows Fetched: 3 in 0.003 seconds' is displayed. The main area contains a table with one header row and three data rows. The header row is labeled 'CUSTOMER\_CITY' with a small diamond icon to its left. The data rows are numbered 1, 2, and 3, corresponding to the cities Chittagong, Dhaka, and Khulna respectively.

	CUSTOMER_CITY
1	Chittagong
2	Dhaka
3	Khulna

iii.

**Execution:**

```
SELECT account_no  
FROM account  
WHERE balance > 7000;
```

**Output:**

The screenshot shows the MySQL Workbench interface with the 'Query Result' tab selected. The results of a query are displayed in a table:

	ACCOUNT_NO
1	A-101

iv.

**Execution:**

```
| SELECT customer_no, customer_city  
| FROM customer  
| WHERE customer_city = 'Khulna';
```

**Output:**

The screenshot shows the MySQL Workbench interface with the 'Query Result' tab selected. The results of a query are displayed in a table:

	CUSTOMER_NO	CUSTOMER_NAME
1	C-104	Charlie

v.

**Execution:**

```
| SELECT customer_no, customer_city  
| FROM customer  
| WHERE not (customer_city = 'Dhaka');
```

**Output:**

The screenshot shows the Oracle SQL Developer interface. The top navigation bar includes tabs for 'Script Output' and 'Query Result'. Below the tabs, there are several icons: a red key, a blue printer, a blue refresh, a red X, and a blue 'SQL' icon. To the right of these icons, the message 'All Rows Fetched: 2 in 0.003 seconds' is displayed. The main area is a grid table with two columns: 'CUSTOMER\_NO' and 'CUSTOMER\_NAME'. The data rows are: Row 1, CUSTOMER\_NO: 1, CUSTOMER\_NAME: Bob; Row 2, CUSTOMER\_NO: 2, CUSTOMER\_NAME: Charlie.

CUSTOMER_NO	CUSTOMER_NAME
1 C-103	Bob
2 C-104	Charlie

vi.

**Execution:**

```
SELECT customer_name, customer_city
FROM customer
join depositor on customer_no = c_no
join account on account_no = a_no
WHERE balance > 7000;
```

Output:

	CUSTOMER_NAME	CUSTOMER_CITY
1	Alice	Dhaka

vii.

Execution:

```
SELECT customer_name, customer_city
FROM customer
join depositor on customer_no = c_no
join account on account_no = a_no
WHERE balance > 7000 and customer_city != 'Khulna';
```

Output:

	CUSTOMER_NAME	CUSTOMER_CITY
1	Alice	Dhaka

viii.

**Execution:**

```

SELECT account_no, balance
FROM account
join depositor on account_no = a_no
join customer on customer-no = c_no
WHERE c_no = 'C-102';

```

**Output:**

	ACCOUNT_NO	BALANCE
1	A-103	2500

ix.

### Execution:

```
3|SELECT account_no, balance
4|FROM account
5|join depositor on account_no = a_no
6|join customer on customer-no = c_no
7|WHERE customer_city in ('Dhaka', 'Khulna');
```

### Output:

	ACCOUNT_NO	BALANCE
1	A-101	12000
2	A-103	2500
3	A-103	2500

X.

### Execution:

```

SELECT customer_no, customer_name, customer_city
FROM customer
WHERE customer_no not in (SELECT c-no from depositor);

```

### Output:

 CUSTOMER_NO	 CUSTOMER_NAME		 CUSTOMER_CITY
-----------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------