

Worksheet : 1.5

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Branch: CSE AIML

Section/Group AIML-9 "A"

Semester: 3rd

Subject Name: DBMS

Subject Code: 21CSH-243

1. Aim/Overview of the practical:

- To implement structure of the table

2. Concept:

- **Create table using existing table**
 - Using CREATE TABLE, you can create a new table by copying data from existing table. In this case, we first use the CREATE TABLE clause with the name for new table, we next write AS and the SELECT query with the names of the columns, and we then write FROM followed by the name of the table from which the data is gathered. Then, you can use any SQL clause: WHERE,
- **The new table gets the same column definitions. All columns or specific columns can be selected.**
- **If you create a new table using an existing table, the new table will be filled with the existing values from the old table.**

3. Code and Output:

- **Creating a simple table**

```
CREATE TABLE PERSONS (  
    CustomerID INTEGER,  
    CustomerName Text,  
    ContactName Text,  
    Address Text,  
    City Text,  
    PostalCode INTEGER,  
    Country Text  
);
```

DATABASE SCHEMA

PERSONS 5 rows	
CustomerID	INTEGER
CustomerName	TEXT
ContactName	TEXT
Address	TEXT
City	TEXT
PostalCode	INTEGER
Country	TEXT

- Inserting elements into it:**

```
INSERT INTO PERSONS VALUES (89, 'White Clover Markets', 'Karl Jablonsk','305 - 14th Ave','Seattle','98128','USA');
```

```
INSERT INTO PERSONS VALUES (90, 'Wilman Kala', 'Matti Karttunen','Keskuskatu 45','Helsinki','21240','Finland');
```

```
INSERT INTO PERSONS VALUES (91, 'Wolski', 'Zbyszek','ul. Filtrowa 68','Walla','01012','Poland');
```

QUERY RESULTS

CustomerID	CustomerName	ContactName	Address	City	PostalCode
89	White Clover Markets	Karl Jablonsk	305 - 14th Ave	Seattle	98128
90	Wilman Kala	Matti Karttunen	Keskuskatu 45	Helsinki	21240
91	Wolski	Zbyszek	ul. Filtrowa 68	Walla	1012

- Creating another table using some columns:**

```
CREATE TABLE TestTable AS
SELECT CustomerName, ContactName
FROM PERSONS;
SELECT * FROM TestTable;
```

TestTable 3 rows	
CustomerName	TEXT
ContactName	TEXT

CustomerName	ContactName
White Clover Markets	Karl Jablonsk
Wilman Kala	Matti Karttunen
Wolski	Zbyszek

- Altering tabel to add some columns:**

```
ALTER TABLE TestTable
ADD Email TEXT;
```

TestTable		3 rows
CustomerName	TEXT	
ContactName	TEXT	
Email	TEXT	

- Altering tabel to change data type of some columns:

ALTER TABLE TestTable ALTER
COLUMN Email INTEGER;

5

Address Text,

6

City Text,

7

PostalCode INTEGER,

8

Country Text

9

);

10

11

-- insert

12

INSERT INTO PERSONS VALUES (89, 'White Clover Markets', 'Karl Jablonsk', '305 - 14th Ave', 'Seattle', 98128, 'USA');

13

INSERT INTO PERSONS VALUES (90, 'Wilman Kala', 'Matti Karttunen', 'Keskuskatu 45', 'Helsinki', 21240, 'Finland');

14

INSERT INTO PERSONS VALUES (91, 'Wolski', 'Zbyszek', 'ul. Filtrowa 68', 'Walla', 01012, 'Poland');

15

16

SELECT * FROM PERSONS;

17

18

CREATE TABLE TestTable AS

19

SELECT CustomerName, ContactName

20

FROM PERSONS;

21

ALTER TABLE TestTable

22

ADD Email TEXT;

23

SELECT * FROM TestTable;

24

25

26

QUERY RESULTS

CustomerID	CustomerName	ContactName	Address
89	White Clover Markets	Karl Jablonsk	305 - 14th Ave
90	Wilman Kala	Matti Karttunen	Keskuskatu 45
91	Wolski	Zbyszek	ul. Filtrowa 68

CustomerName	ContactName	Email
White Clover Markets	Karl Jablonsk	NULL
Wilman Kala	Matti Karttunen	NULL
Wolski	Zbyszek	NULL

4. Learning Outcome:

- Understand the concept creating copy table
- Understand the use alter
- Understand the use of alter datatype

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Viva		
2.	Worksheet		
3.	Performance		