

Customer

<u>CustID</u>	Name	City	Age	Salary	<u>DeptID</u>
1	Ahmad	Amman	20	400	D1
2	Nidal	Irbid	25	220	D3
3	Abeer	Ajloun	40	400	D4
4	Sarah	Amman	20	400	D4
5	Khaled	Aqaba	20	400	D5
6	Leen	Amman	25	300	D7
7	Joud	Irbid	35	700	D7
8	Nizar	Karak	45	550	
9	Waleed	Aqaba	43	590	

Department

<u>DeptID</u>	Name
D1	Eng
D2	Com
D3	Lib
D4	Bus
D5	Edu
D6	Nat
D7	Mar

- **Create Statement**

```
CREATE TABLE Department (  
    DeptID VARCHAR(5) NOT NULL,  
    Name   VARCHAR(50) NOT NULL,  
    PRIMARY KEY (DeptID)  
);
```

```
CREATE TABLE Customer (  
    CustId   INT NOT NULL,  
    Name     VARCHAR(20) NOT NULL,  
    City     VARCHAR(15),  
    Age      INT,  
    Salary   DECIMAL(10, 2),  
    DeptID   VARCHAR(5),  
    PRIMARY KEY (CustId),  
    FOREIGN KEY (DeptID) REFERENCES Department (DeptID)  
);
```

- **Alter Statement**

(How to add a new column, named Location)

```
ALTER TABLE Department  
ADD Location VARCHAR(20);
```

Department

<u>DeptId</u>	Name	Location
D1	Eng	
D2	Com	
D3	Lib	
D4	Bus	
D5	Edu	
D6	Nat	
D7	Mar	

(How to delete a column from a table)

```
ALTER TABLE Department  
DROP COLUMN Location;
```

Department

<u>DeptId</u>	Name
D1	Eng
D2	Com
D3	Lib
D4	Bus
D5	Edu
D6	Nat
D7	Mar

(How to add a constraint, Name becomes primary key)

```
ALTER TABLE Department  
ADD CONSTRAINT Department_PK PRIMARY KEY (Name);
```

Department

<u>DeptId</u>	<u>Name</u>
D1	Eng
D2	Com
D3	Lib
D4	Bus
D5	Edu
D6	Nat
D7	Mar

(How to modify a column, Name was varchar2(5) now it become varchar2(10))

```
ALTER TABLE Department  
MODIFY Name VARCHAR(10);
```

- **Insert Statement**

(Insert a complete row/record)

```
INSERT INTO Customer (CustId, Name, City, Age, Salary, DeptID)  
VALUES (22, 'Laith', 'Irbid', 25, 300, 'D2');
```

(Insert selected values in a row)

```
INSERT INTO Customer (CustID, Name)  
VALUES (11, 'Issam');
```

Customer

<u>CustID</u>	<u>Name</u>	<u>City</u>	<u>Age</u>	<u>Salary</u>	<u>DeptID</u>
1	Ahmad	Amman	20	400	D1
2	Nidal	Irbid	25	220	D3
3	Abeer	Ajloun	40	400	D4
4	Sarah	Amman	20	400	D4
5	Khaled	Aqaba	20	400	D5
6	Leen	Amman	25	300	D7
7	Joud	Irbid	35	700	D7
8	Nizar	Karak	45	550	
9	Waleed	Aqaba	43	590	
10	Laith	Irbid	25	300	D2
11	Essam				

- **Delete Statement**

(Delete all rows in a table)

```
DELETE FROM Customer;
```

Customer

<u>CustID</u>	Name	City	Age	Salary	DeptID
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(Delete some rows based on condition)

```
DELETE FROM Customer  
WHERE City = 'Amman';
```

Customer

<u>CustID</u>	Name	City	Age	Salary	DeptID
2	Nidal	Irbid	25	220	D3
3	Abeer	Ajloun	40	400	D4
5	Khaled	Aqaba	20	400	D5
7	Joud	Irbid	35	700	D7
8	Nizar	Karak	45	550	
9	Waleed	Aqaba	43	590	

- **Drop Statement**

(Delete the table itself completely from the database)

```
DROP TABLE Customer;
```

- **Truncate Statement**

(Delete the data of the table.)

```
TRUNCATE TABLE Customer;
```

```
DELETE FROM Customer;
```

Note. These statements do the same task

- **Update Statement**

(Update records in a table)

```
UPDATE Customer
SET Name = 'George'
WHERE CustId = 1;
```

Customer

<u>CustID</u>	Name	City	Age	Salary	DeptID
1	George	Amman	20	400	D1
2	Nidal	Irbid	25	220	D3
3	Abeer	Ajloun	40	400	D4
4	Sarah	Amman	20	400	D4
5	Khaled	Aqaba	20	400	D5
6	Leen	Amman	25	300	D7
7	Joud	Irbid	35	700	D7
8	Nizar	Karak	45	550	
9	Waleed	Aqaba	43	590	