

Table Operations :-

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1) Create a table Employee with Ename , Eid, Dept , Address, Salary , D.O.J.

=> Create table Employee3 (E_Name Varchar(15) , E_id Varchar(15), Dept Varchar(15), Address Varchar(20), Salary Varchar(10) , DOJ Date);

2) Display the schema of the table.

=> desc Employee3;

3) Insert four values in the table

=> insert into Employee3 values ('Tanu', 'dey@gmail.com', 'HR', 'Kolkata', '12000', '01-aug-2022');

insert into Employee3 values ('Ram', 'ram@gmail.com', 'Manager', 'Kolkata', '18000', '21-aug-2012');

insert into Employee3 values ('Akas', 'akas@gmail.com', 'CEO', 'Dilli', '20000', '01-aug-2020');

insert . into Employee3 values ('Sohel', 'sohel@gmail.com', 'HR', 'USA', '10000', '01-aug-2022');

4) Display the entire table along with its values.

=> Select * from Employee3;

5) Retrieve only the Ename and Salary of the Employee

=> Select Ename, ~~Salary~~ from Employee3;

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Table created.

0.01 seconds

Object Type TABLE Object EMPLOYEE3

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPLOYEE3	E_NAME	Varchar2	15	-	-	-	✓	-	-
	E_ID	Varchar2	20	-	-	-	✓	-	-
	DEPT	Varchar2	15	-	-	-	✓	-	-
	ADDRESS	Varchar2	20	-	-	-	✓	-	-
	SALARY	Varchar2	10	-	-	-	✓	-	-
	D_O_J	Date	7	-	-	-	✓	-	-

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1 row(s) inserted.

0.01 seconds

E_NAME	E_ID	DEPT	ADDRESS	SALARY	D_O_J
Tarun	dey@gmail.com	HR	kolkata	12000	01-AUG-22
Ram	ram@gmail.com	Manager	kolkata	18000	21-AUG-12
Akas	akas@gmail.com	CEO	Dilli	200000	01-AUG-20
Saheb	saheb@gmail.com	HR	usa	12000	01-AUG-22

4 rows returned in 0.02 seconds

[CSV Export](#)

E_NAME	SALARY
Tarun	12000
Ram	18000
Akas	200000
Saheb	12000

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4 rows returned in 0.01 seconds
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6) Display details of employees whose address = 'Kolkata'.
⇒ Select * from Employee3 where Address = 'Kolkata';

7) Display details of employees whose department = 'HR'.
⇒ Select * from Employee3 where dept = 'HR';

8) Delete all records from the relation.
⇒ Delete from Employee3;

9) Delete the relation.
⇒ drop table Employee3;

10) Check if relation is deleted or not.
⇒ desc Employee3;



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E_NAME	E_ID	DEPT	ADDRESS	SALARY	D_O_J
Tarun	dey@gmail.com	HR	kolkata	12000	01-AUG-22
Ram	ram@gmail.com	Manager	kolkata	18000	21-AUG-12

2 rows returned in 0.00 seconds [CSV Export](#)

E_NAME	E_ID	DEPT	ADDRESS	SALARY	D_O_J
Tarun	dey@gmail.com	HR	kolkata	12000	01-AUG-22
Saheb	saheb@gmail.com	HR	usa	12000	01-AUG-22

2 rows returned in 0.00 seconds [CSV Export](#)

4 row(s) deleted.

0.00 seconds

Table dropped.

0.03 seconds

Object to be described could not be found.

15/09/23



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Lab: 2

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1) Create a table EMPLOYEE with the columns First_Name, Second_Name, Address1, Address2, Ph_No, E_Id, salary, D_O_J.

Create table EMPLOYEE (First_Name ^{varchar(15)}, Second_Name ^{varchar(15)},
Address1 ^{varchar(20)}, Address2 ^{varchar(20)}, Ph_No
^{varchar(10)}, E_Id ^{varchar(20)}, Salary ^{varchar(10)},
D_O_J ^{Date});

2) Describe the table.

desc EMPLOYEE

3) Insert three values into the table.

insert into EMPLOYEE values ('Tomu', 'Dey', 'Kolkata', 'Bankura',
'77648512', 'E001', '50000', '01-Jan-2015');

insert into EMPLOYEE values ('Sohel', 'Pai', 'mumbai', 'Bankura',
'77845512', 'E002', '40000', '01-Feb-2017');

insert into EMPLOYEE values ('Raj', 'Sen', 'Kolkata', 'Bankura',
'795855', 'E004', '45500', '01-SEP-2018');

4) Select all the records from the relation.

select * from EMPLOYEE;



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Table created.

0.00 seconds

Object Type TABLE Object EMPLOYEES

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPLOYEE	FIRST_NAME	VARCHAR2	15	-	-	-	✓	-	-
	SECOND_NAME	VARCHAR2	15	-	-	-	✓	-	-
	ADDRESS1	VARCHAR2	20	-	-	-	✓	-	-
	ADDRESS2	VARCHAR2	20	-	-	-	✓	-	-
	PH_NO	VARCHAR2	10	-	-	-	✓	-	-
	E_ID	VARCHAR2	10	-	-	-	✓	-	-
	SALARY	VARCHAR2	10	-	-	-	✓	-	-
	D_O_J	DATE	7	-	-	-	✓	-	-

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1 row(s) inserted.

0.01 seconds

FIRST_NAME	SECOND_NAME	ADDRESS1	ADDRESS2	PH_NO	E_ID	SALARY	D_O_J
Tanu	Dey	Kolkata	Banikura	77648512	E001	50000	01-JAN-15
Saheb	Pal	Mumbai	Banikura	77845512	E002	40000	01-FEB-17
Raj	Sen	Kolkata	Banikura	745855	E004	45500	01-SEP-18

3 rows returned in 0.03 seconds

CSV Export

Object Type TABLE Object MASTER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
MASTER	FIRST_NAME	VARCHAR2	15	-	-	-	✓	-	-
	SECOND_NAME	VARCHAR2	15	-	-	-	✓	-	-
	ADDRESS1	VARCHAR2	20	-	-	-	✓	-	-
	ADDRESS2	VARCHAR2	20	-	-	-	✓	-	-
	PH_NO	VARCHAR2	10	-	-	-	✓	-	-
	ID	VARCHAR2	10	-	-	-	✓	-	-
	SALARY	VARCHAR2	10	-	-	-	✓	-	-
	D_O_J	DATE	7	-	-	-	✓	-	-

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5) Create a MASTER table with same field in the previous relation modifying E_Id = Id .

Create table MASTER (First_Name varchar(15), Second_Name varchar(15), Address1 varchar(20), Address2 varchar(20), Phno varchar(10), Id varchar(10), DOJ Date);

6) Delete all the records from the relation . (MASTER)

delete from MASTER ;

7) Delete the row where Id = "E001"

delete from MASTER where Id = 'E001' ;

8) update any field in the MASTER relation .

9) Add Email in the MASTER ~~table~~ relation .

Alter table MASTER ADD Email varchar(20);



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FIRST_NAME	SECOND_NAME	ADDRESS1	ADDRESS2	PH_NO	ID	SALARY	D_O_J
Tanu	Dey	Kolkata	Bankura	77648512	E001	50000	01-JAN-15
Saheb	Pai	Mumbai	Bankura	77845512	E002	40000	01-FEB-17
Raj	Sen	Kolkata	Bankura	745855	E004	45500	01-SEP-18

3 rows returned in 0.00 seconds

CSV Export

3 row(s) deleted.

0.00 seconds

1 row(s) deleted.

0.02 seconds

FIRST_NAME	SECOND_NAME	ADDRESS1	ADDRESS2	PH_NO	ID	SALARY	D_O_J
Raj	Sen	Kolkata	Bankura	745855	E004	45500	01-SEP-18
Saheb	Pai	Mumbai	Bankura	77845512	E002	40000	01-FEB-17

2 rows returned in 0.00 seconds

CSV Export

Table altered.

0.02 seconds

Object Type TABLE Object MASTER									
Table	Columns	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
MASTER	FIRST_NAME	VARCHAR2	15	-	-	-	✓	-	-
	SECOND_NAME	VARCHAR2	15	-	-	-	✓	-	-
	ADDRESS1	VARCHAR2	20	-	-	-	✓	-	-
	ADDRESS2	VARCHAR2	20	-	-	-	✓	-	-
	PH_NO	VARCHAR2	10	-	-	-	✓	-	-
	ID	VARCHAR2	10	-	-	-	✓	-	-
	SALARY	VARCHAR2	10	-	-	-	✓	-	-
	D_O_J	VARCHAR2	7	-	-	-	✓	-	-
	E_MAIL	VARCHAR2	20	-	-	-	✓	-	-

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10) Drop address from MASTER table .

Alter table MASTER drop column Address1;

Alter table MASTER drop column Address2;

11) Rename MASTER to MID

rename MASTER to MID;

12) Drop MID .

drop table MID ;



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Table dropped.

0.12 seconds

Object Type TABLE Object MASTER								
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default / Comment
MASTER	FIRST_NAME	Varchar2	15	-	-	-	✓	-
	SECOND_NAME	Varchar2	15	-	-	-	✓	-
	PH_NO	Varchar2	10	-	-	-	✓	-
	ID	Varchar2	10	-	-	-	✓	-
	SALARY	Varchar2	10	-	-	-	✓	-
	D_O_J	Date	7	-	-	-	✓	-
	E_MAIL	Varchar2	20	-	-	-	✓	-

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Statement processed.

0.01 seconds

Object Type TABLE Object MID								
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default / Comment
MID	FIRST_NAME	Varchar2	15	-	-	-	✓	-
	SECOND_NAME	Varchar2	15	-	-	-	✓	-
	PH_NO	Varchar2	10	-	-	-	✓	-
	ID	Varchar2	10	-	-	-	✓	-
	SALARY	Varchar2	10	-	-	-	✓	-
	D_O_J	Date	7	-	-	-	✓	-
	E_MAIL	Varchar2	20	-	-	-	✓	-

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Table dropped.

0.10 seconds



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LAB: 3

1) Create table STUDENT with the columns Name, Roll, Address, E-mail, marks.

Create table student (Name varchar(15), Roll int, Address varchar(15), E-mail varchar(15), Marks int);

2) Add Primary Key to the column Roll.

~~Insert into student (Name, Roll, Address, Email, marks)~~

3) Select Name, Roll, Percentage_of_Marks from the relation.

Select * ~~from student~~, Name, Roll, (Marks * 100.0 / (select max(Marks) from student)) as Percentage from student;

4) Rename column Marks as Percentage_of_Marks.

~~alter table student rename marks to Percentage_of_Marks;~~

5) Select Name, Roll and Address of the student whose marks is between 50 to 80.

~~select Name, Roll, Address where Percentage_of_marks between 50 to 80;~~



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Run SQL

Output

```
CREATE TABLE STUDENT (
    Name VARCHAR(255),
    Roll INT,
    Address VARCHAR(255),
    E_email VARCHAR(255),
    Marks INT
);
```

SQL query successfully executed. However, the result set is empty.

Input

```
INSERT INTO STUDENT (Name, Roll, Address, E_email, Marks)
VALUES
    ('Aryan', 102, 'DLF-2', 'aryan@example.com', 88),
    ('Soham', 103, 'KOLKATA', 'Sohan@example.com', 75),
    ('Sumit', 104, 'ASANSOL', 'sumit@example.com', 35),
    ('Anit', 105, 'HALDIA', 'anit@example.com', 65),
    ('Tarun', 106, 'BANKURA', 'tarun@example.com', 48),
    ('Arjeet', 107, 'DURGAPUR', 'ari@example.com', 74),
    ('Rahul', 108, 'DURGAPUR', 'rahul@example.com', 48),
    ('Ranjan', 109, 'KOLKATA', 'ranjan@example.com', 45),
    ('Pratyay', 110, 'DURGAPUR', 'pratyay@example.com', 66),
    ('Shaan', 111, 'KOLKATA', 'shaan@example.com', 85);
```

SELECT * FROM STUDENT;

Run SQL

Output

Name	Roll	Address	E_email	Marks
Aryan	102	DLF-2	aryan@example.com	88
Soham	103	KOLKATA	Sohan@example.com	75
Sumit	104	ASANSOL	sumit@example.com	35
Anit	105	HALDIA	anit@example.com	65
Tarun	106	BANKURA	tarun@example.com	48
Arjeet	107	DURGAPUR	ari@example.com	74
Rahul	108	DURGAPUR	rahul@example.com	48
Ranjan	109	KOLKATA	ranjan@example.com	45
Pratyay	110	DURGAPUR	pratyay@example.com	66
Shaan	111	KOLKATA	shaan@example.com	85

Run SQL

Output

```
SELECT Name, Roll, Marks * 100.0 / (SELECT MAX(Marks) FROM STUDENT) AS Percentage
FROM STUDENT;
```

Output

Name	Roll	Percentage
Aryan	102	88.0
Soham	103	75.0
Sumit	104	35.0
Anit	105	65.0
Tarun	106	48.0
Arjeet	107	74.0
Rahul	108	48.0
Ranjan	109	45.0
Pratyay	110	66.0
Shaan	111	85.0



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6) Retrieve Name, Email, of the student whose Name starts with "S".

Select Name, Email from student whose Name is like 'S %';

7) Select the tuples where Address is Durgeshwar or
Kolkata.
Select * from student where Address = 'Durgeshwar' || 'Kolkata';

8) Select Name of students whose Name is Smit, Ankit,
Rajon.
Select Name ~~from~~ student where name in ('Smit',
'Ankit', 'Rajon');

9) Select Name of students whose Name is except Smit,
Ankit, Rajon.
Select Name, from student where name ~~not~~ in ('Smit',
'Ankit', 'Rajon');

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Input
SELECT * FROM STUDENT
ENDING COLUMNS Marks TO Percentage_of_marks;

Output

Name	Roll	Address	E-mail	Percentage of marks
Amit	10	Kolkata	amit@example.com	80
Soham	10	Kolkata	soham@example.com	80
Arjeet	10	Kolkata	arjeet@example.com	80
Pratyay	10	Kolkata	pratyay@example.com	80
Sumit	10	Kolkata	sumit@example.com	80
Ranjan	10	Kolkata	ranjan@example.com	80
Tanu	10	Kolkata	tanu@example.com	80

Input

```
SELECT Name, E_mail  
FROM STUDENT  
WHERE Marks >= 50 AND Marks <= 80;
```

Output

Name	E-mail
Soham	soham@example.com
Amit	amit@example.com
Arjeet	arjeet@example.com
Pratyay	pratyay@example.com

Output

Name	E-mail
Soham	soham@example.com
Sumit	sumit@example.com
Shroo	shroo@example.com

Input

```
SELECT Name, Address  
FROM STUDENT  
WHERE Name IN ('Sumit', 'Amit', 'Ranjan');
```

Output

Name	Address
Sumit	ASANSOL
Amit	HALDIA
Ranjan	KOLKATA

Input
SELECT Name, Address
FROM STUDENT
WHERE Name NOT IN ('Sumit', 'Amit', 'Ranjan');

Name	Address
Aryan	DLI-2
Soham	KOLKATA
Tanu	BARRA
Arjeet	DUMDUM
Rishabh	DUMDUM
Pratyay	CHINCHER
Shroo	KOLKATA



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10) Retrieve the tuple where Address of Durgeshpur, Mandla,
Kolkata .

Select * from student where Address in ("Durgeshpur", "Mandla",
'Kolkata');

11) Select the details of the student ascending to
their marks .

Select * from student order by Percentage_of_Marks
ASC ;

12) Select the details of the student descending to
their marks .

Select * from student order by Percentage_of_Marks
DESC ;

13) Retrieve the student whose Name starts with "S" and
end with "N".

Select * from student where Name like 'S.%N';

14) Drop the relation .
Drop table student;

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Address
F-2
KOLKATA
JALAN KUBA
INDIAPUR
JALAN GAGAR
DULATA

Input

Input

```
SELECT *  
FROM STUDENT  
WHERE Address IN ('DURGAPUR', 'HALDIA', 'KOLKATA');
```

Output

Name	Roll	Address	E-mail	Marks
Soham	103	KOLKATA	soham@example.com	75
Amit	105	HALDIA	amit@example.com	65
Rohul	108	DURGAPUR	rohul@example.com	48
Ranjan	109	KOLKATA	ranjan@example.com	45
Pratyay	110	DURGAPUR	pratyay@example.com	66
Shaan	111	KOLKATA	shaan@example.com	85

```
SELECT *  
FROM STUDENT  
WHERE Address IN ('DURGAPUR', 'KOLKATA');
```

Output

Name	Roll	Address	E-mail	Marks
Soham	103	KOLKATA	soham@example.com	75
Rohul	108	DURGAPUR	rohul@example.com	48
Ranjan	109	KOLKATA	ranjan@example.com	45
Pratyay	110	DURGAPUR	pratyay@example.com	66
Shaan	111	KOLKATA	shaan@example.com	85

```
SELECT *  
FROM STUDENT  
ORDER BY Marks ASC;
```

Name	Roll	Address	E-mail	Marks
Sumit	104	ASANSOL	sumit@example.com	35
Ranjan	109	KOLKATA	ranjan@example.com	45
Torun	106	BANKURA	torun@example.com	48
Rohul	108	DURGAPUR	rohul@example.com	48
Amit	105	HALDIA	amit@example.com	65
Pratyay	110	DURGAPUR	pratyay@example.com	66
Argent	107	BURDUM	argent@example.com	74
Soham	103	KOLKATA	soham@example.com	76



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Input

```
SELECT *  
FROM STUDENT  
ORDER BY MARKS DESC;
```

Name	Roll	Address	E-mail	Marks
Aryan	102	DL 5-2	aryan@example.com	88
Shaan	111	KOLKATA	shaan@example.com	85
Soham	103	DURGAPUR	soham@example.com	75
Anjali	107	DURGAPUR	anjali@example.com	74
Priyanshu	110	DURGAPUR	priyanshu@example.com	66
Amit	106	HALDIA	amit@example.com	65
Turn	104	BANKURA	turn@example.com	48
Ronal	108	DURGAPUR	ronal@example.com	45

Input

```
SELECT *  
FROM STUDENT  
WHERE Name LIKE 'SH%';
```

Name	Roll	Address	E-mail	Marks
Shaan	111	KOLKATA	shaan@example.com	85

Output

```
Error: no such table: STUDENT  
DROP TABLE STUDENT;
```

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