

EXERCISE 1: MASTERING ORACLE SQL QUERIES

AIM:

DESCRIPTION:

1) Creating table and insertion:

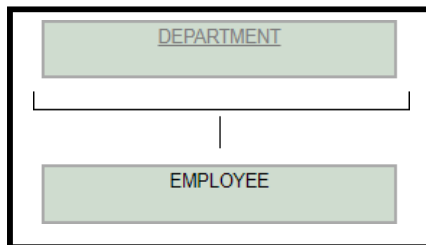
i) **Creating Employee table with the following fields:**

[eno,ename,edob,eage,egender,esal,eadd,dno] and insert fifteen records

```
CREATE TABLE Employee (  
    eno INT PRIMARY KEY,  
    ename VARCHAR(255),  
    edob DATE,  
    eage INT,  
    egender VARCHAR(10),  
    esal DECIMAL(10,2),  
    eadd VARCHAR(255),  
    dno INT,  
    FOREIGN KEY (dno) REFERENCES Department(dno)  
);
```

ii) **Creating Department table with the following fields: [dno,dname,dhead,dlocation] and insert any five records**

```
CREATE TABLE Department (  
    dno INT PRIMARY KEY,  
    dname VARCHAR(255),  
    dhead VARCHAR(255),  
    dlocation VARCHAR(255)  
);
```



Insert values in employee table:

```
INSERT INTO Employee VALUES(1, 'yogesh', TO_DATE('09-01-1990', 'DD-MM-YYYY'), 30,  
'Male', 5000, 'jayanthipuram', 1);  
INSERT INTO Employee VALUES(2, 'jayshnee', TO_DATE('19-05-1985', 'DD-MM-YYYY'), 36,  
'Female', 6000, 'ponmeni', 2);  
INSERT INTO Employee VALUES(3, 'nandhini', TO_DATE('18-08-1998', 'DD-MM-YYYY'), 33,  
'Female', 5500, 'tvs nagar', 1);  
INSERT INTO Employee VALUES(4, 'siva', TO_DATE('15-03-1995', 'DD-MM-YYYY'), 26, 'Male',  
4800, 'andalpuram', 2);  
INSERT INTO Employee VALUES(5, 'praveena', TO_DATE('10-12-1980', 'DD-MM-YYYY'), 41,  
'Female', 7500, 'thirunagar', 1);  
INSERT INTO Employee VALUES(6, 'krishna', TO_DATE('12-06-1982', 'DD-MM-YYYY'), 39,  
'Male', 6200, 'thirumangalam', 3);  
INSERT INTO Employee VALUES(7, 'swetha', TO_DATE('13-09-1993', 'DD-MM-YYYY'), 28,  
'Female', 5800, 'st mount', 2);  
INSERT INTO Employee VALUES(8, 'hirthick', TO_DATE('15-04-1975', 'DD-MM-YYYY'), 47,  
'Male', 9000, 'bypass road', 1);  
INSERT INTO Employee VALUES(9, 'firose', TO_DATE('12-11-1992', 'DD-MM-YYYY'), 29,  
'Female', 6700, 'kk nagar', 3);
```

```

INSERT INTO Employee VALUES(10, 'varman', TO_DATE('17-07-1987', 'DD-MM-YYYY'), 34,
'Male', 7200, 'anna nagar', 2);
INSERT INTO Employee VALUES(11, 'aishu', TO_DATE('13-02-1983', 'DD-MM-YYYY'), 38,
'Female', 8000, 'matuthavani', 1);
INSERT INTO Employee VALUES(12, 'raja', TO_DATE('18-06-1998', 'DD-MM-YYYY'), 23,
'Male', 5500, 'kovalan nagar', 3);
INSERT INTO Employee VALUES(13, 'bhavana', TO_DATE('10-10-1990', 'DD-MM-YYYY'), 31,
'Female', 6300, 'koodal nagar', 2);
INSERT INTO Employee VALUES(14, 'ken', TO_DATE('19-04-1989', 'DD-MM-YYYY'), 32,
'Male', 6700, 'kk gardens', 1);
INSERT INTO Employee VALUES(15, 'barbie', TO_DATE('04-08-1984', 'DD-MM-YYYY'), 37,
'Female', 7100, 'kochadai', 3);

```

Insert values into department table:

```

INSERT INTO Department VALUES(1, 'CS', 'CS Head', 'anna nagar');
INSERT INTO Department VALUES(2, 'IT', 'IT Head', 'andalpuram');
INSERT INTO Department VALUES(3, 'DS', 'DS Head', 'kk gardens');
INSERT INTO Department VALUES(4, 'EEE', 'EEE Head', 'thirumangalam');
INSERT INTO Department VALUES(5, 'ECE', 'ECE Head', 'kochadai');

```

2) Selecting Records:

1) Display all the employee details.

```
SELECT * FROM Employee;
```

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
1	yogesh	09-JAN-90	30	Male	5000	jayanthipuram	1
2	jayshnee	19-MAY-85	36	Female	6000	ponmeni	2
3	nandhini	18-AUG-98	33	Female	5500	tvn nagar	1
4	siva	15-MAR-95	26	Male	4800	andalpuram	2
5	praveena	10-DEC-80	41	Female	7500	thirunagar	1
6	krishna	12-JUN-82	39	Male	6200	thirumangalam	3
7	swetha	13-SEP-93	28	Female	5800	st mount	2
8	hirthick	15-APR-75	47	Male	9000	bypass road	1
9	firose	12-NOV-92	29	Female	6700	kk nagar	3
10	varman	17-JUL-87	34	Male	7200	anna nagar	2
11	aishu	13-FEB-83	38	Female	8000	matuthavani	1
12	raja	18-JUN-98	23	Male	5500	kovalan nagar	3
13	bhavana	10-OCT-90	31	Female	6300	koodal nagar	2
14	ken	19-APR-89	32	Male	6700	kk gardens	1
15	barbie	04-AUG-84	37	Female	7100	kochadai	3

2) Display all department information.

SELECT * FROM Department;

DNO	DNAME	DHEAD	DLOCATION
1	CS	CS Head	anna nagar
2	IT	IT Head	andalpuram
3	DS	DS Head	kk gardens
4	EEE	EEE Head	thirumangalam
5	ECE	ECE Head	kochadai

3) Display eno,ename and esal details from employee table.

SELECT eno, ename, esal FROM Employee;

ENO	ENAME	ESAL
1	yogesh	5000
2	jayshnee	6000
3	nandhini	5500
4	siva	4800
5	praveena	7500
6	krishna	6200
7	swetha	5800
8	hirthick	9000
9	firose	6700
10	varman	7200
11	aishu	8000
12	raja	5500
13	bhavana	6300
14	ken	6700
15	barbie	7100

4) Display the all female employee name list.

SELECT ename FROM Employee WHERE egender = 'Female';

ENAME
jayshnee
nandhini
praveena
swetha
firose
aishu
bhavana
barbie

5) Display the all employee details whose eno less than 105.

SELECT * FROM Employee WHERE eno < 105;

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
1	yogesh	09-JAN-90	30	Male	5000	jayanthipuram	1
2	jayshnee	19-MAY-85	36	Female	6000	ponmeni	2
3	nandhini	18-AUG-98	33	Female	5500	tvnagar	1
4	siva	15-MAR-95	26	Male	4800	andalpuram	2
5	praveena	10-DEC-80	41	Female	7500	thirunagar	1
6	krishna	12-JUN-82	39	Male	6200	thirumangalam	3
7	swetha	13-SEP-93	28	Female	5800	st mount	2
8	hirthick	15-APR-75	47	Male	9000	bypass road	1
9	firose	12-NOV-92	29	Female	6700	kk nagar	3
10	varman	17-JUL-87	34	Male	7200	anna nagar	2
11	aishu	13-FEB-83	38	Female	8000	matuthavani	1
12	raja	18-JUN-98	23	Male	5500	kovalan nagar	3
13	bhavana	10-OCT-90	31	Female	6300	koodal nagar	2
14	ken	19-APR-89	32	Male	6700	kk gardens	1
15	barbie	04-AUG-84	37	Female	7100	kochadai	3

6) Display the all male employee names whose age greater than 45.

SELECT ename FROM Employee WHERE egender = 'Male' AND eage > 45;

ENAME
hirthick

7) List out the name of the employee who is belongs to the department no 3.

SELECT ename FROM Employee WHERE dno = 3;

ENAME
krishna
firose
raja
barbie

8) List out all the department number uniquely from the employee table.

SELECT DISTINCT dno FROM Employee;

DNO
1
2
3

9) List out the department number and their head in-charges.

SELECT dno, dhead FROM Department;

DNO	DHEAD
1	CS Head
2	IT Head
3	DS Head
4	EEE Head
5	ECE Head

10) Display the total number of employees working in the company.

SELECT COUNT(*) FROM Employee;

COUNT(*)
15

11) Display the total number of employees working in the department no 2.

SELECT COUNT(*) FROM Employee WHERE dno = 2;

COUNT(*)
5

12) Display the names of the employee who is working in department number 3 with the age is greater than 40.

SELECT ename FROM Employee WHERE dno = 3 AND eage > 40;

ENAME
firose

13) Display the names of the employee who's getting salary between 2000 and 5000.

SELECT ename FROM Employee WHERE esal BETWEEN 2000 AND 5000;

ENAME
yogesh
siva

14) Display the names of the employee whose is not belongs to either department number 1 or 2.

SELECT ename FROM Employee WHERE dno NOT IN (1, 2);

ENAME
krishna
firose
raja
barbie

15) Who is getting maximum salary in the company.

SELECT ename FROM Employee WHERE esal = (SELECT MAX(esal) FROM Employee);

ENAME
hirthick

```
SELECT ename FROM Employee WHERE esal = (SELECT MIN(esal) FROM Employee);
```

```
SELECT ename FROM Employee WHERE esal = (SELECT MAX(esal) FROM Employee WHERE dno = 3);
```

```
SELECT AVG(esal) FROM Employee;
```

```
SELECT ename FROM Employee WHERE ename LIKE 's%';
```

```
SELECT ename FROM Employee WHERE ename LIKE '%n';
```

```
SELECT * FROM Employee WHERE eadd IN ('Madurai', 'Trichy');
```

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
9	firose	12-NOV-50	74	Female	6700	Madurai	3
10	varman	17-JUL-50	74	Male	7200	Trichy	2

3) Modify the records (Update and Delete Queries):

- 1) Change the salary as Rs 10000 for any one of the employee

```
UPDATE Employees SET esal = 10000 WHERE eno = 101;
```

101	Varsha	19-MAR-04	40	Female	12000	Bypass	2
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1 row(s) updated.

0.00 seconds

- 2) Increase the salary Rs 2000 for all female employees.

```
UPDATE Employees SET esal = esal + 2000 WHERE egender = 'Female';
```

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
201	Jayshnee	16-MAR-04	19	Female	9600	Alagappan nagar	1
202	Nandhini	20-JAN-04	19	Female	14400	Ponmeni	1
203	Johnson	30-DEC-03	20	Female	9600	Thirumangalam	1
204	Aishwariyaa	17-NOV-03	20	Female	8000	Mattuthavani	2
101	Varsha	19-MAR-04	40	Female	12000	Bypass	2
209	Shivani	04-OCT-04	60	Female	10000	Ponmeni	3
211	Tejas	30-AUG-06	17	Female	6000	Alagappan nagar	4
215	Afrose	28-JUL-00	23	Female	9600	Thirumangalam	5

8 row(s) updated.

0.01 seconds

- 3) Fix the salary Rs 6000 for all employees with the age less than 30.

```
UPDATE Employees SET esal = 6000 WHERE eage < 30;
```

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
201	Jayshnee	16-MAR-04	19	Female	9600	Alagappan nagar	1
202	Nandhini	20-JAN-04	19	Female	14400	Ponmeni	1
203	Johnson	30-DEC-03	20	Female	9600	Thirumangalam	1
204	Aishwariyaa	17-NOV-03	20	Female	8000	Mattuthavani	2
206	Yogesh	14-MAR-04	19	Male	9600	Jahindhipuram	1
207	Hirtheek	21-APR-85	20	Male	9000	Kovalan nagar	2
208	Balaji	12-DEC-03	20	Male	8000	S.S Colony	3
210	Vishnu	11-OCT-24	23	Male	6000	Thirunagar	3
211	Tejas	30-AUG-06	17	Female	6000	Alagappan nagar	4
214	Sweatha	09-OCT-23	15	Male	12000	Ponmeni	5
215	Afrose	28-JUL-00	23	Female	9600	Thirumangalam	5

15 rows returned in 0.00 seconds

[CSV Export](#)

11 row(s) updated.

0.01 seconds

- 4) Increase the salary Rs 1000 for all male employees working in the Department no 2.

UPDATE Employees SET esal = esal + 1000 WHERE egender = 'Male' AND dno = 02;

207	Hirthick	21-APR-85	20	Male	9000	Kovalan nagar	2
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1 row(s) updated.

0.00 seconds

- 5) Fix the maximum salary for the employee With the age greater than 45.

UPDATE Employees SET esal = '900000' WHERE eage > 45;

213	Rahman	07-SEP-03	45	Male	112000	Pasumalai	4
214	Sweatha	09-OCT-23	15	Male	12000	Ponmeni	5

2 row(s) updated.

0.00 seconds

- 6)Change the name of the employee as “johnson” whose eid is 103.

UPDATE Employees SET ename = 'Johnson' WHERE eno = 203;

203	Johnson	30-DEC-03	20	Female	9600	Thirumangalam	1
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1 row(s) updated.

0.00 seconds

- 7) Fix the average salary for all employees who is belongs to madurai or Trichy.

UPDATE Employees SET esal = '10000' WHERE eadd IN ('Ponmeni', 'Bypass');

202	Nandhini	20-JAN-04	19	Female	14400	Ponmeni	1
101	Varsha	19-MAR-04	40	Female	12000	Bypass	2
209	Shivani	04-OCT-04	60	Female	10000	Ponmeni	3
214	Sweatha	09-OCT-23	15	Male	12000	Ponmeni	5

0.03 seconds

8) Increase the salary Rs 2000 for the employee those who were born before 21st APR 1985.

UPDATE Employees SET esal = esal + 2000 WHERE edob < '21-APR-2004';

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
201	Jayshnee	16-MAR-04	19	Female	9600	Alagappan nagar	1
202	Nandhini	20-JAN-04	19	Female	14400	Ponmeni	1
203	Johnson	30-DEC-03	20	Female	9600	Thirumangalam	1
204	Aishwariyaa	17-NOV-03	20	Female	8000	Mattuthavani	2
101	Varsha	19-MAR-04	40	Female	12000	Bypass	2
206	Yogesh	14-MAR-04	19	Male	9600	Jahindhipuram	1
207	Hirtheek	21-APR-85	20	Male	9000	Kovalan nagar	2
208	Balaji	12-DEC-03	20	Male	8000	S.S Colony	3
211	Tejas	30-AUG-06	17	Female	6000	Alagappan nagar	4
212	Veera	19-JUN-03	50	Male	902000	Jahindhipuram	4
213	Rahman	07-SEP-03	45	Male	112000	Pasumalai	4

11 row(s) updated.

0.00 seconds

9) Change the head of the department name as "J. Rajkumar" for the Department no 104.

UPDATE Departments SET dhead = 'J. Rajkumar' WHERE dno = 04;

4	Arch	J. Rajkumar	Near TCE
---	------	-------------	----------

1 row(s) updated.

0.00 seconds

10) Give the 20% increment of the salary for the employee who are not belongs to the department no 2,3,4.

UPDATE Employees SET esal = esal * 1.20 WHERE dno NOT IN (02, 03, 04);

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
201	Jayshnee	16-MAR-04	19	Female	9600	Alagappan nagar	1
202	Nandhini	20-JAN-04	19	Female	14400	Ponmeni	1
203	Johnson	30-DEC-03	20	Female	9600	Thirumangalam	1
206	Yogesh	14-MAR-04	19	Male	9600	Jahindhipuram	1
214	Sweatha	09-OCT-23	15	Male	12000	Ponmeni	5
215	Afrose	28-JUL-00	23	Female	9600	Thirumangalam	5

6 row(s) updated.

0.01 seconds

11) Delete the all employee details who get salary less than 5000.

DELETE FROM Employees WHERE esal < 10000;

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
202	Nandhini	20-JAN-04	19	Female	14400	Ponmeni	1
101	Varsha	19-MAR-04	40	Female	12000	Bypass	2
209	Shivani	04-OCT-04	60	Female	10000	Ponmeni	3
212	Veera	19-JUN-03	50	Male	902000	Jahindhipuram	4
213	Rahman	07-SEP-03	45	Male	112000	Pasumalai	4
214	Sweatha	09-OCT-23	15	Male	12000	Ponmeni	5

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

9 row(s) deleted.

0.03 seconds

12) Delete the details of employee who belongs to Chennai.

DELETE FROM Employees WHERE eadd = 'Ponmeni';

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
101	Varsha	19-MAR-04	40	Female	12000	Bypass	2
212	Veera	19-JUN-03	50	Male	902000	Jahindhipuram	4
213	Rahman	07-SEP-03	45	Male	112000	Pasumalai	4

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

3 row(s) deleted.

0.01 seconds

13) Delete the employee details whose name start with the character "s".

DELETE FROM Employees WHERE ename LIKE 'V%';

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
213	Rahman	07-SEP-03	45	Male	112000	Pasumalai	4

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

2 row(s) deleted.

0.00 seconds

14) Delete the all female employee whose age reach greater than 45.

DELETE FROM Employees WHERE egender = 'Female' AND eage > 45;

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
201	Jayshnee	16-MAR-04	19	Female	100000	Alagappan nagar	1
202	Nandhini	20-JAN-04	19	Female	150000	Ponmeni	1
203	Firose	30-DEC-03	20	Female	130000	Thirumangalam	1
204	Aishwariyaa	17-NOV-03	20	Female	120000	Mattuthavani	2
205	Varsha	19-MAR-04	40	Female	100000	Bypass	2
206	Yogesh	14-MAR-04	19	Male	100000	Jahindhipuram	1
207	Hirthick	06-AUG-03	20	Male	160000	Kovalan nagar	2
208	Balaji	12-DEC-03	20	Male	115000	S.S Colony	3
210	Vishnu	11-OCT-24	23	Male	110000	Thirunagar	3
211	Tejas	30-AUG-06	17	Female	5000	Alagappan nagar	4
More than 10 rows available. Increase rows selector to view more rows.							

10 rows returned in 0.01 seconds

[CSV Export](#)

1 row(s) deleted.

0.00 seconds

15) Delete the employee records whose age between 2nd Dec 2005 and 3rd Feb 2007.

DELETE FROM Employees WHERE edob BETWEEN '02-DEC-2005' AND '03-FEB-2007';

1 row(s) deleted.

0.00 seconds

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
201	Jayshnee	16-MAR-04	19	Female	100000	Alagappan nagar	1
202	Nandhini	20-JAN-04	19	Female	150000	Ponmeni	1
203	Firose	30-DEC-03	20	Female	130000	Thirumangalam	1
204	Aishwariyaa	17-NOV-03	20	Female	120000	Mattuthavani	2
205	Varsha	19-MAR-04	40	Female	100000	Bypass	2
206	Yogesh	14-MAR-04	19	Male	100000	Jahindhipuram	1
207	Hirthick	06-AUG-03	20	Male	160000	Kovalan nagar	2
208	Balaji	12-DEC-03	20	Male	115000	S.S Colony	3
210	Vishnu	11-OCT-24	23	Male	110000	Thirunagar	3
212	Veera	19-JUN-03	20	Male	10000	Jahindhipuram	4
More than 10 rows available. Increase rows selector to view more rows.							

10 rows returned in 0.00 seconds

[CSV Export](#)

4) Modifying Tables (Alter, Truncate, rename, copy and Drop table):

- 1) Add a new column 'edes' in employee table.

```
ALTER TABLE Employees ADD edes VARCHAR(255);
```

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO	EDES
201	Jayshnee	16-MAR-04	19	Female	100000	Alagappan nagar	1	-
202	Nandhini	20-JAN-04	19	Female	150000	Ponmeni	1	-
203	Firose	30-DEC-03	20	Female	130000	Thirumangalam	1	-
204	Aishwariyaa	17-NOV-03	20	Female	120000	Mattuthavani	2	-
205	Varsha	19-MAR-04	40	Female	100000	Bypass	2	-
206	Yogesh	14-MAR-04	19	Male	100000	Jahindhipuram	1	-
207	Hirthick	06-AUG-03	20	Male	160000	Kovalan nagar	2	-
208	Balaji	12-DEC-03	20	Male	115000	S.S Colony	3	-
210	Vishnu	11-OCT-24	23	Male	110000	Thirunagar	3	-
212	Veera	19-JUN-03	20	Male	10000	Jahindhipuram	4	-
213	Rahman	07-SEP-03	20	Male	110000	Pasumalai	4	-
214	Sweatha	09-OCT-23	15	Male	113000	Ponmeni	5	-
215	Afrose	28-JUL-00	23	Female	200000	Thirumangalam	5	-

13 rows returned in 0.00 seconds

[CSV Export](#)

Table altered.

0.00 seconds

- 2) Add a multiple columns email and econtact in employee table

```
ALTER TABLE Employees ADD email VARCHAR(255), ADD econtact  
VARCHAR(20);
```

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO	EDES	EMAIL	ECONTACT
201	Jayshnee	16-MAR-04	19	Female	100000	Alagappan nagar	1	-	-	-
202	Nandhini	20-JAN-04	19	Female	150000	Ponmeni	1	-	-	-
203	Firose	30-DEC-03	20	Female	130000	Thirumangalam	1	-	-	-
204	Aishwariyaa	17-NOV-03	20	Female	120000	Mattuthavani	2	-	-	-
205	Varsha	19-MAR-04	40	Female	100000	Bypass	2	-	-	-
206	Yogesh	14-MAR-04	19	Male	100000	Jahindhipuram	1	-	-	-
207	Hirthick	06-AUG-03	20	Male	160000	Kovalan nagar	2	-	-	-
208	Balaji	12-DEC-03	20	Male	115000	S.S Colony	3	-	-	-
210	Vishnu	11-OCT-24	23	Male	110000	Thirunagar	3	-	-	-
212	Veera	19-JUN-03	20	Male	10000	Jahindhipuram	4	-	-	-
213	Rahman	07-SEP-03	20	Male	110000	Pasumalai	4	-	-	-
214	Sweatha	09-OCT-23	15	Male	113000	Ponmeni	5	-	-	-
215	Afrose	28-JUL-00	23	Female	200000	Thirumangalam	5	-	-	-

13 rows returned in 0.00 seconds

[CSV Export](#)

Table altered.

0.00 seconds

3) Modify the size of the column eadd in employee tables.

ALTER TABLE Employees MODIFY eadd VARCHAR(500);

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO	EDES	EMAIL	ECONTACT
201	Jayshnee	16-MAR-04	19	Female	100000	Alagappan nagar	1	-	-	-
202	Nandhini	20-JAN-04	19	Female	150000	Ponmeni	1	-	-	-
203	Firose	30-DEC-03	20	Female	130000	Thirumangalam	1	-	-	-
204	Aishwariyaa	17-NOV-03	20	Female	120000	Mattuthavani	2	-	-	-
205	Varsha	19-MAR-04	40	Female	100000	Bypass	2	-	-	-
206	Yogesh	14-MAR-04	19	Male	100000	Jahindhipuram	1	-	-	-
207	Hirthick	06-AUG-03	20	Male	160000	Kovalan nagar	2	-	-	-
208	Balaji	12-DEC-03	20	Male	115000	S.S Colony	3	-	-	-
210	Vishnu	11-OCT-24	23	Male	110000	Thirunagar	3	-	-	-
212	Veera	19-JUN-03	20	Male	10000	Jahindhipuram	4	-	-	-
213	Rahman	07-SEP-03	20	Male	110000	Pasumalai	4	-	-	-
214	Sweatha	09-OCT-23	15	Male	113000	Ponmeni	5	-	-	-
215	Afrose	28-JUL-00	23	Female	200000	Thirumangalam	5	-	-	-

13 rows returned in 0.00 seconds

[CSV Export](#)

Table altered.

0.02 seconds

4) Modify the data type for the column esal as float format (precision- 5, Scale- 2)

ALTER TABLE Employees MODIFY esal FLOAT(5, 2);

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO	EDES	EMAIL	ECONTACT	NEW_ESAL
201	Jayshnee	16-MAR-04	19	Female	100000	Alagappan nagar	1	-	-	-	-
202	Nandhini	20-JAN-04	19	Female	150000	Ponmeni	1	-	-	-	-
203	Firose	30-DEC-03	20	Female	130000	Thirumangalam	1	-	-	-	-
204	Aishwariyaa	17-NOV-03	20	Female	120000	Mattuthavani	2	-	-	-	-
205	Varsha	19-MAR-04	40	Female	100000	Bypass	2	-	-	-	-
206	Yogesh	14-MAR-04	19	Male	100000	Jahindhipuram	1	-	-	-	-
207	Hirthick	06-AUG-03	20	Male	160000	Kovalan nagar	2	-	-	-	-
208	Balaji	12-DEC-03	20	Male	115000	S.S Colony	3	-	-	-	-
210	Vishnu	11-OCT-24	23	Male	110000	Thirunagar	3	-	-	-	-
212	Veera	19-JUN-03	20	Male	10000	Jahindhipuram	4	-	-	-	-
213	Rahman	07-SEP-03	20	Male	110000	Pasumalai	4	-	-	-	-
214	Sweatha	09-OCT-23	15	Male	113000	Ponmeni	5	-	-	-	-
215	Afrose	28-JUL-00	23	Female	200000	Thirumangalam	5	-	-	-	-

13 rows returned in 0.00 seconds

[CSV Export](#)

Table altered.

0.00 seconds

5)Rename the employee table

ALTER TABLE Employees RENAME TO NewEmployeeTable;

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO	EDES	EMAIL	ECONTACT	NEW_ESAL
201	Jayshnee	16-MAR-04	19	Female	100000	Alagappan nagar	1	-	-	-	-
202	Nandhini	20-JAN-04	19	Female	150000	Ponmeni	1	-	-	-	-
203	Firose	30-DEC-03	20	Female	130000	Thirumangalam	1	-	-	-	-
204	Aishwariyaa	17-NOV-03	20	Female	120000	Mattuthavani	2	-	-	-	-
205	Varsha	19-MAR-04	40	Female	100000	Bypass	2	-	-	-	-
206	Yogesh	14-MAR-04	19	Male	100000	Jahindhipuram	1	-	-	-	-
207	Hirthick	06-AUG-03	20	Male	160000	Kovalan nagar	2	-	-	-	-
208	Balaji	12-DEC-03	20	Male	115000	S.S Colony	3	-	-	-	-
210	Vishnu	11-OCT-24	23	Male	110000	Thirunagar	3	-	-	-	-
212	Veera	19-JUN-03	20	Male	10000	Jahindhipuram	4	-	-	-	-
213	Rahman	07-SEP-03	20	Male	110000	Pasumalai	4	-	-	-	-
214	Sweatha	09-OCT-23	15	Male	113000	Ponmeni	5	-	-	-	-
215	Afrose	28-JUL-00	23	Female	200000	Thirumangalam	5	-	-	-	-

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

Table altered.

0.00 seconds

6)Rename an existing column egender as esex in employee table

ALTER TABLE NewEmployeeTable RENAME COLUMN egender TO esex;

ENO	ENAME	EDOB	EAGE	ESEX	ESAL	EADD	DNO	EDES	EMAIL	ECONTACT	NEW_ESAL
201	Jayshnee	16-MAR-04	19	Female	100000	Alagappan nagar	1	-	-	-	-
202	Nandhini	20-JAN-04	19	Female	150000	Ponmeni	1	-	-	-	-
203	Firose	30-DEC-03	20	Female	130000	Thirumangalam	1	-	-	-	-
204	Aishwariyaa	17-NOV-03	20	Female	120000	Mattuthavani	2	-	-	-	-
205	Varsha	19-MAR-04	40	Female	100000	Bypass	2	-	-	-	-
206	Yogesh	14-MAR-04	19	Male	100000	Jahindhipuram	1	-	-	-	-
207	Hirthick	06-AUG-03	20	Male	160000	Kovalan nagar	2	-	-	-	-
208	Balaji	12-DEC-03	20	Male	115000	S.S Colony	3	-	-	-	-
210	Vishnu	11-OCT-24	23	Male	110000	Thirunagar	3	-	-	-	-
212	Veera	19-JUN-03	20	Male	10000	Jahindhipuram	4	-	-	-	-
213	Rahman	07-SEP-03	20	Male	110000	Pasumalai	4	-	-	-	-
214	Sweatha	09-OCT-23	15	Male	113000	Ponmeni	5	-	-	-	-
215	Afrose	28-JUL-00	23	Female	200000	Thirumangalam	5	-	-	-	-

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

Table altered.

0.00 seconds

7)Remove all the records from the employee table

TRUNCATE TABLE NewEmployeeTable;

Table truncated.

0.04 seconds

no data found

8) Recover the deleted records of employee table

-Restore the backup or re-insert the deleted records.

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
201	Jayshnee	16-MAR-04	19	Female	100000	Alagappan nagar	1
202	Nandhini	20-JAN-04	19	Female	150000	Ponmeni	1
203	Firose	30-DEC-03	20	Female	130000	Thirumangalam	1
204	Aishwariyaa	17-NOV-03	20	Female	120000	Mattuthavani	2
205	Varsha	19-MAR-04	40	Female	100000	Bypass	2
206	Yogesh	14-MAR-04	19	Male	100000	Jahindhipuram	1
207	Hirthick	06-AUG-03	20	Male	160000	Kovalan nagar	2
208	Balaji	12-DEC-03	20	Male	115000	S.S Colony	3

8 rows returned in 0.00 seconds

[CSV Export](#)

9) Create the customer table and then drop it.

```
CREATE TABLE Customer (  
customer_id INT PRIMARY  
KEY, customer_name  
VARCHAR(255)  
);
```

Table created.

0.00 seconds

```
DROP TABLE Customer;
```

Table dropped.

0.09 seconds

10) Add default value for the field 'email' in employee table

```
ALTER TABLE Employees ADD (email VARCHAR2(255)  
DEFAULT'default@email.com');
```

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO	EMAIL
201	Jayshnee	16-MAR-04	19	Female	100000	Alagappan nagar	1	default@email.com
202	Nandhini	20-JAN-04	19	Female	150000	Ponmeni	1	default@email.com
203	Firose	30-DEC-03	20	Female	130000	Thirumangalam	1	default@email.com
204	Aishwariyaa	17-NOV-03	20	Female	120000	Mattuthavani	2	default@email.com
205	Varsha	19-MAR-04	40	Female	100000	Bypass	2	default@email.com
206	Yogesh	14-MAR-04	19	Male	100000	Jahindhipuram	1	default@email.com
207	Hirthick	06-AUG-03	20	Male	160000	Kovalan nagar	2	default@email.com
208	Balaji	12-DEC-03	20	Male	115000	S.S Colony	3	default@email.com

8 rows returned in 0.02 seconds

[CSV Export](#)

Table altered.

0.00 seconds

11) Set the Not Null for the field 'ename' in employee table

ALTER TABLE Employees MODIFY ename VARCHAR(255) NOT NULL;

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO	EMAIL
201	Jayshnee	16-MAR-04	19	Female	100000	Alagappan nagar	1	default@email.com
202	Nandhini	20-JAN-04	19	Female	150000	Ponmeni	1	default@email.com
203	Firose	30-DEC-03	20	Female	130000	Thirumangalam	1	default@email.com
204	Aishwariyaa	17-NOV-03	20	Female	120000	Mattuthavani	2	default@email.com
205	Varsha	19-MAR-04	40	Female	100000	Bypass	2	default@email.com
206	Yogesh	14-MAR-04	19	Male	100000	Jahindhipuram	1	default@email.com
207	Hirthick	06-AUG-03	20	Male	160000	Kovalan nagar	2	default@email.com
208	Balaji	12-DEC-03	20	Male	115000	S.S Colony	3	default@email.com

8 rows returned in 0.01 seconds

[CSV Export](#)

Table altered.

0.01 seconds

12) Drop the column email from employee table

ALTER TABLE NewEmployeeTable DROP COLUMN email;

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
201	Jayshnee	16-MAR-04	19	Female	100000	Alagappan nagar	1
202	Nandhini	20-JAN-04	19	Female	150000	Ponmeni	1
203	Firose	30-DEC-03	20	Female	130000	Thirumangalam	1
204	Aishwariyaa	17-NOV-03	20	Female	120000	Mattuthavani	2
205	Varsha	19-MAR-04	40	Female	100000	Bypass	2
206	Yogesh	14-MAR-04	19	Male	100000	Jahindhipuram	1
207	Hirthick	06-AUG-03	20	Male	160000	Kovalan nagar	2
208	Balaji	12-DEC-03	20	Male	115000	S.S Colony	3

8 rows returned in 0.00 seconds

[CSV Export](#)

Table dropped.

0.08 seconds

13) Enable and Disable the primary key constraint

ALTER TABLE Employees DISABLE PRIMARY KEY;

Table altered.

0.00 seconds

ENO	ENAME	EDOB	EAGE	EGENDER	ESAL	EADD	DNO
201	Jayshnee	16-MAR-04	19	Female	100000	Alagappan nagar	1
202	Nandhini	20-JAN-04	19	Female	150000	Ponmeni	1
203	Firose	30-DEC-03	20	Female	130000	Thirumangalam	1
204	Aishwariyaa	17-NOV-03	20	Female	120000	Mattuthavani	2
205	Varsha	19-MAR-04	40	Female	100000	Bypass	2
206	Yogesh	14-MAR-04	19	Male	100000	Jahindhipuram	1
207	Hirthick	06-AUG-03	20	Male	160000	Kovalan nagar	2
208	Balaji	12-DEC-03	20	Male	115000	S.S Colony	3

8 rows returned in 0.00 seconds

[CSV Export](#)

Result



