Mohini Chavan

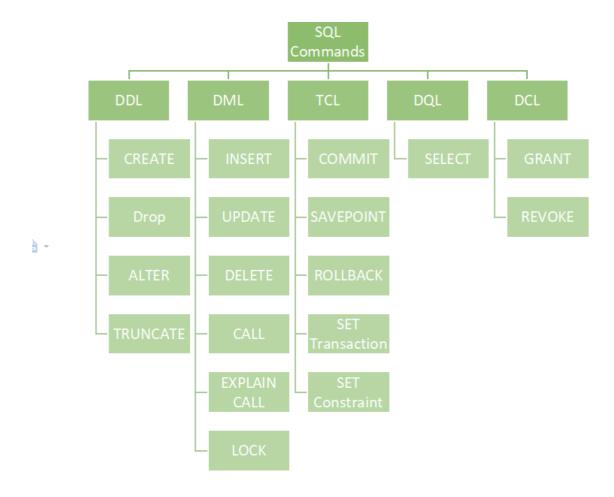
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SQL: Structured Query Language(SQL) as we all know is the database language by the use of which we can perform certain operations on the existing database and also we can use this language to create a database. <u>SQL</u> uses certain commands like Create, Drop, Insert, etc. to carry out the required tasks.

These <u>SQL</u> commands are mainly categorized into four categories as:

- 1. DDL Data Definition Language
- 2. DQI Data Query Language/ DRL Data Retrieval Language
- 3. DML Data Manipulation Language
- 4. DCL Data Control Language

Though many resources claim there to be another category of SQL clauses **TCL – Transaction Control Language**. So we will see in detail about TCL as well.



DDL (Data Definition Language):

<u>DDL</u> or Data Definition Language actually consists of the SQL commands that can be used to define the database schema. It simply deals with descriptions of the database schema and is used to create and modify the structure of database objects in the database. DDL is a set of SQL commands used to create, modify, and delete database structures but not data. These commands are normally not used by a general user, who should be accessingthe database via an application.

List of DDL commands:

- **CREATE**: This command is used to create the database or its objects (like table, index, function, views, store procedure, and triggers).
- **DROP**: This command is used to delete objects from the database.
- ALTER: This is used to alter the structure of the database.
- **TRUNCATE**: This is used to remove all records from a table, including all spaces allocated for the records are removed.
- **COMMENT**: This is used to add comments to the data dictionary.
- RENAME: This is used to rename an object existing in the database.

DQL (Data Query Language): Data Retrieval language.

DQL statements are used for performing queries on the data within schema objects. The purpose of the DQL Command is to get some schema relation based on the query passed to it. We can define DQL as follows it is a component of SQL statement that allows getting data from the database and imposing order upon it. It includes the SELECT statement. This command allows getting the data out of the database to perform operations with it. When a SELECT is fired against a table or tables the result is compiled into a further temporary table, which is displayed or perhaps received by the program i.e. a front-end. List of DQL:

SELECT: It is used to retrieve data from the database.

DML(Data Manipulation Language):

The SQL commands that deals with the manipulation of data present in the database belong to DML or Data Manipulation Language and this includes most of the SQL statements. It is the component of the SQL statement that controls access to data and to the database. Basically, DCL statements are grouped with DML statements.

List of DML commands:

- INSERT: It is used to insert data into a table.
- **UPDATE**: It is used to update existing data within a table.
- **DELETE**: It is used to delete records from a database table.
- **LOCK:** Table control concurrency.
- CALL: Call a PL/SQL or JAVA subprogram.
- **EXPLAIN PLAN:** It describes the access path to data.

DCL (Data Control Language):

DCL includes commands such as GRANT and REVOKE which mainly deal with the rights, permissions, and other controls of the database system.

List of DCL commands:

GRANT: This command gives users access privileges to the database.

• **REVOKE:** This command withdraws the user's access privileges given by using the GRANT command.

Though many resources claim there to be another category of SQL clauses TCL – Transaction Control Language. So we will see in detail about TCL as well. TCL commands deal with the <u>transaction within the database</u>. List of TCL commands:

- **COMMIT**: Commits a Transaction.
- ROLLBACK: Rollbacks a transaction in case of any error occurs.
- **SAVEPOINT**:Sets a savepoint within a transaction.
- **SET TRANSACTION:** Specify characteristics for the transaction.

https://www.oracle.com/database/technologies/xe-prior-release-downloads.html

https://youtu.be/seFRL1GAzLY

https://www.testingdocs.com/download-install-mysql-on-windows-11/

https://dev.mysql.com/downloads/installer/

https://youtu.be/eq-e n7lm2M

https://www.youtube.com/watch?v=WuBcTJnluzo

https://www.youtube.com/watch?v=wEHWYuzP7VE

DDL (Data Definition Language)

• Create:

Syntax: create table tablename(col1 datatype,col2 datatype,....);

EX: create table Employees1(Empld number, FirstName varchar(20), LastName varchar(20), EmailId Varchar(50), Gender char(1), MobileNo char(10));

```
SQL> create table Employees1(
2 EmpId number,
3 FirstName varchar(20),
4 LastName varchar(20),
5 EmailId Varchar(50),
6 Gender char(1),
7 MobileNo char(10));
Table created.
```

Alter:

Syntax: ALTER TABLE table_name

ADD new_column_name column_definition

Example: alter table Employees1 add Age varchar(5);

SQL> alter table Employees1 add Age varchar(5);

EMPID FIRSTNAME G MOBILENO AGE	LASTNAME	EMAILID
 10 Priyanka F 9930160922 20 Pawan	Salvi Salvi	salvipriyanka1710@gmail salvipawan2610@gmail
M 9881262806 30 Mohini F 9763910985 40 Pooja	Chavan Patil	mohinichavan123@gmail patilpooja124@gmail
F 9987115055 50 Ankita F 7021654042	Jadhav	ankitajadhav126@gmail

Rename:

Syntax: rename Old _table To New_table;

Example: rename employees1 To customer;

```
SQL> rename employees1 To customer;
Table renamed.
```

Truncate

Syntax: Truncate table table_name; Example: Truncate table Customer;

```
SQL> truncate table customer;
Table truncated.
SQL> select * from customer;
no rows selected
```

DQL (Data Query Language)

Select:

Syntax: select * from table name;

Example: select * from Employees1;

EMPI	FIRSTNAME	LASTNAME	EMAILID	G MOBILENO
26 36) Priyanka) Pawan) Mohini) Pooja	Salvi Salvi Chavan Patil	salvipriyanka1710@gmail salvipawan2610@gmail mohinichavan123@gmail patilpooja124@gmail	F 9930160922 M 9881262806 F 9763910985 F 9987115055

DML(Data Manipulation Language)

1. Insert

Syntax: INSERT INTO table_name (column_1, column_2, column_n)
VALUES (expression_1, expression_2, ... expression_n)

Example: insert into Employees1 (Empld, FirstName,LastName,EmailId, Gender, MobileNo) values (010, 'Mohini', 'Chavan', 'chavanmohini@gmail', 'F', 9930160922);

```
SQL> insert into Employees1 (EmpId, FirstName,LastName,EmailId, Gender, MobileNo) values (010, 'Priyanka', 'Salvi', 'salvipriyanka1710@gmail', 'F', 9930160922);
1 row created.
SQL> insert into Employees1 (EmpId, FirstName,LastName,EmailId, Gender, MobileNo) values (020, 'Pawan', 'Salvi', 'salvipawan2610@gmail', 'M', 9881262806);
1 row created.
```

2. Update:

Syntax: PDATE table1

SET column1 = (SELECT expression1

FROM table2

WHERE conditions)

Example: update Employees1 set Empld = 40 where MobileNo =9987115055;

```
SQL> update Employees1 set EmpId = 40
 2 where MobileNo =9987115055;
1 row updated.
SQL> select * from Employees1;
    EMPID FIRSTNAME
                               LASTNAME
                                                     EMAILID
       G MOBILENO
                               Salvi
       10 Priyanka
                                                     salvipriyanka1710@gmail
       F 9930160922
       20 Pawan
                                Salvi
                                                     salvipawan2610@gmail
       M 9881262806
                                                     mohinichavan123@gmail
       30 Mohini
                               Chavan
       F 9763910985
       40 Pooja
                                Patil
                                                     patilpooja124@gmail
       F 9987115055
       30 Ankita
                                Jadhav
                                                     ankitajadhav126@gmail
       F 7021654042
```

TCL (Transaction Control Language)

3. Commit:

Syntax: commit;

```
SQL> create table Player(rank number, name varchar(10), best number);

Table created.

SQL> insert into player values(1,'Virat',183);

1 row created.

SQL> insert into player values(2,'Dhoni',183);

1 row created.

SQL> insert into player values(3,'Rohit',264);

1 row created.

SQL> select * from Player;

RANK NAME
BEST

1 Virat
183
2 Dhoni
3 Rohit
264

SQL> commit;

Commit complete.
```

4. Savepoint:

Syntax: savepoint name;

```
SQL> select * from Player;
     RANK NAME
                           BEST
        1 Virat
        2 Dhoni
                             183
        3 Rohit
                            264
SQL> savepoint insertion;
Savepoint created.
SQL> insert into player values(4,'Jadeja',334);
1 row created.
SQL> insert into player values(5,'KL_Rahul',252);
1 row created.
SQL> select * from Player;
     RANK NAME
                           BEST
        1 Virat
        2 Dhoni
                            183
        3 Rohit
                            264
        4 Jadeja
                            334
        5 KL_Rahul
                             252
SQL> savepoint Updation;
Savepoint created.
```

5. Rollback:

Syntax: Rollback to savepoint_name;

```
SQL> rollback to insertion;

Rollback complete.

SQL> select * from Player;

RANK NAME BEST

1 Virat 183
2 Dhoni 183
3 Rohit 264
```

GROUP BY:

Syntax: SELECT column_name(s)

FROM table_name

WHERE condition

GROUP BY column_name(s)

ORDER BY column_name(s);

```
50000 Delhi
   101
800001
   102 Amit
800002
                                 Research
                                                  45000 Mumbai
   103 Tanu
800003
                                                 450000 Delhi
   EMP_ID EMP_NAME
                                 DEPT
                                                  SALARY CITY
  PINCODE
   104 sunil
800004
                                                  10000 Kolkata
  105 sunil
800005
                                                  15000 Kolkata
   106 sonam
800006
                                                 115000 Ranchi
   EMP_ID EMP_NAME
                                                 SALARY CITY
  PINCODE
   107 sonam
800007
                                 HR
                                                  48000 Mumbai
   108 Priyanka
800008
                                                   70000 Banglore
3 rows selected.
SQL> select emp_name, min(salary) from Employees2 group by emp_name;
                     MIN(SALARY)
```

ORDER BY:

Syntax:

SELECT column1, column2, ...

FROM table_name

ORDER BY column1, column2, ... ASC|DESC;

```
8 rows selected.
SQL> select * from Employees2
 2 order by emp_name desc;
   EMP_ID EMP_NAME
                              DEPT
                                           SALARY CITY
  PINCODE
     104 sunil
                                            10000 Kolkata
   800004
      105 sunil
                                            15000 Kolkata
   800005
                                             48000 Mumbai
     107 sonam
                              HR
   800007
   EMP_ID EMP_NAME
                              DEPT
                                            SALARY CITY
  PINCODE
                                            115000 Ranchi
     106 sonam
                              HR
   800006
                                            450000 Delhi
      103 Tanu
                              Accountant
   800003
```

SQL SELECT:

1. SQL SELECT DISTINCT:

Syntax: select distinct column name from table name;

Example: SELECT DISTINCT City from stud;

```
SQL> select * from stud;
   STUDID STUDENT_NAME
                              GENDER
                                        MOBILE_NUM CITY
        1 Ankita Jadhav
                              Female
                                        1234569871 Gansoli
                                       1234569881 Thane
        2 Pooja Patil
                              Female
        3 Pratiksha Maurya Female
                                       1234569891 Thane
        4 Mohini Chavan
                                       1534569891 Nashik
                              Female
        5 Rutuja Patil
                              Female
                                       2534569891 Nashik
        6 Amruta Patil
                              Female
                                        2535469891 Nashik
6 rows selected.
SQL> SELECT DISTINCT City from stud;
CITY
Thane
Gansoli
Nashik
```

2. SQL SELECT COUNT

Syntax: select count(column_name)from table_name;

Example: select count(Student Name)from stud;

```
SQL> select count(Student_Name)from stud;
COUNT(STUDENT_NAME)
-----6
```

6. COUNT FUNCTION WITH WHERE CLAUSE IN SQL:

Syntax: SELECT COUNT(column_name) FROM (table_name)WHERE (column_name)condition;

Example: select count(Student_Name) AS totalCityNashik from stud Where City = 'Nashik';

```
SQL> select count(Student_Name) AS totalCityNashik from stud Where City = 'Nashik';
TOTALCITYNASHIK
------3
```

7. COUNT FUNCTION WITH DISTINCT KEYWORD

Syntax: select count(distinct column_name) from table_name where (condition); Example:

3. ROWNUM KEYWORD IN WHERE CLAUSE:

Syntax: SELECT column_Name1,column_Name2,, column_NameN FROM table name WHERE ROWNUM <= value;

```
SQL> select * from Stud;
     STUDID STUDENT_NAME
                                            GENDER
                                                           MOBILE_NUM CITY
           1 Ankita Jadhav Female 1234569871 Gansoli
2 Pooja Patil Female 1234569881 Thane
3 Pratiksha Maurya Female 1234569891 Thane
4 Mohini Chavan Female 1534569891 Nashik
5 Rutuja Patil Female 2534569891 Nashik
6 Amruta Patil Female 2535469891 Nashik
6 rows selected.
SQL> select * from Stud where rownum <= 4;
                                            GENDER
     STUDID STUDENT_NAME
                                                            MOBILE_NUM CITY
                                            Female
           1 Ankita Jadhav
                                                            1234569871 Gansoli
           2 Pooja Patil
                                                            1234569881 Thane
            3 Pratiksha Maurya
                                            Female
                                                            1234569891 Thane
            4 Mohini Chavan
                                            Female
                                                            1534569891 Nashik
```

4. SQL SELECT RANDOM:

Syntax: SELECT column FROM (SELECT column FROM table ORDER BY dbms_random.value) WHERE rownum =1

5. SQL SELECT SUM:

Syntax: SELECT SUM (expression) FROM tables WHERE conditions;

SQL COUNT(), AVG() AND SUM() FUNCTIONS:

1. COUNT():

```
Syntax: SELECT COUNT(column_name)
FROM table_name
WHERE condition;
```

```
SQL> select count(emp_id)
2 from Employees2;
COUNT(EMP_ID)
-----8
```

2. AVG():

```
Syntax: SELECT AVG(column_name)
FROM table_name
WHERE condition;
```

```
SQL> select avg(salary)
2 from Employees2;

AVG(SALARY)
----------
100375
```

3. SUM()

Syntax: SELECT AVG(column_name)

FROM table_name;

```
SQL> select sum(salary)
2 from Employees2;
SUM(SALARY)
------
803000
```

SQL LOGICAL OPERATOR:

1. SQL AND

Syntax: SELECT *

FROM tables _name

WHERE condition 1 AND condition 2;

SQL/ SELECT ITOM Stud,						
STUDID STUDENT_NAME	GENDER	MOBILE_NUM CITY	DEPARTMENT			
1 Ankita Jadhav			EXTC			
2 Pooja Patil	Female	1234569881 Thane	COMP			
3 Pratiksha Maurya	Female	1234569891 Thane	COMP			
4 Mohini Chavan	Female	1534569891 Nashik	COMP			
5 Rutuja Patil	Female	2534569891 Nashik	EXTC			
6 Amruta Patil	Female	2535469891 Nashik	EXTC			
6 rows selected. SQL> select * from Stud where Department ='EXTC' AND City = 'Nashik';						
STUDID STUDENT_NAME	GENDER	MOBILE_NUM CITY	DEPARTMENT			
5 Rutuja Patil	Female	2534569891 Nashik	EXTC			
6 Amruta Patil	Female	2535469891 Nashik	EXTC			

2. SQL OR:

Syntax: SELECT *

FROM tables _name

WHERE condition 1 OR condition 2;

```
select * from Employees2
where emp_name = 'sonam'
                                or emp_name = 'Priyanka' or emp_name = 'sunil';
 EMP_ID EMP_NAME
                                   DEPT
                                                     SALARY CITY
PINCODE G EMAIL_ID
 104 sunil
800004 M Sunil159@gmail.com
                                                      10000 Kolkata
 105 sunil
800005 M Sunil357@gmail.com
                                                      15000 Kolkata
 106 sonam
800006 F Sonam258@gmail.com
                                                     115000 Ranchi
 EMP_ID EMP_NAME
                                   DEPT
                                                     SALARY CITY
PINCODE G EMAIL_ID
 107 sonam
800007 F Sonam369@gmail.com
                                                       48000 Mumbai
 108 Priyanka IT
800008 F Priyanka1710@gmail.com
                                                       70000 Banglore
```

3. SQL NOT:

Syntax: : SELECT *
FROM tables _name

WHERE condition 1 OR condition 2;

```
SQL> select * from stud
2 where not City = 'Nashik';

STUDID STUDENT_NAME    GENDER    MOBILE_NUM CITY

DEPARTMENT

1 Ankita Jadhav    Female    1234569871 Gansoli

2 Pooja Patil    Female    1234569881 Thane

3 Pratiksha Maurya    Female    1234569891 Thane
```

4. Like:

Syntax:

SELECT * FROM Customers

WHERE CustomerName LIKE 'a%';

```
SQL> select * from stud;
STUDID STUDENT_NAME GENDER MOBILE_NUM CITY

DEPARTMENT

1 Ankita Jadhav Female 1234569881 Thane
3 Pratiksha Maurya Female 1234569891 Thane

STUDID STUDENT_NAME GENDER MOBILE_NUM CITY

DEPARTMENT

4 Mohini Chavan Female 1534569891 Nashik
5 Rutuja Patil Female 2534569891 Nashik
6 Amruta Patil Female 2535469891 Nashik

6 rows selected.

SQL> select * from stud
2 where Student_Name like 'P%';
STUDID STUDENT_NAME GENDER MOBILE_NUM CITY

DEPARTMENT

2 Pooja Patil Female 1234569881 Thane
3 Pratiksha Maurya Female 1234569891 Thane
```

5. Not Like:

Syntax:

SELECT * FROM Customers

WHERE CustomerName NOT LIKE 'a%';

```
SQL> select * from stud
2 where Student_Name not like 'A%';
STUDID STUDENT_NAME GENDER MOBILE_NUM CITY

DEPARTMENT

2 Pooja Patil Female 1234569881 Thane

3 Pratiksha Maurya Female 1234569891 Thane

4 Mohini Chavan Female 1534569891 Nashik

STUDID STUDENT_NAME GENDER MOBILE_NUM CITY

DEPARTMENT

5 Rutuja Patil Female 2534569891 Nashik
```

6. Between:

SELECT column_name(s)

FROM table_name

WHERE column_name BETWEEN value1 AND value2;

```
Female
                                          1234569881 Thane
        2 Pooja Patil
        3 Pratiksha Maurya
                               Female
                                          1234569891 Thane
   STUDID STUDENT_NAME
                               GENDER
                                          MOBILE_NUM CITY
DEPARTMENT
                                          2535469891 Nashik
        6 Amruta Patil
                              Female
 rows selected.
SQL> select * from stud
2 where StudId between 1 and 4;
                             GENDER
   STUDID STUDENT_NAME
                                          MOBILE_NUM CITY
DEPARTMENT
                              Female
                                          1234569871 Gansoli
                                          1234569881 Thane
   STUDID STUDENT_NAME
                               GENDER
                                          MOBILE_NUM CITY
EPARTMENT
```

7. All:

```
Syntax: SELECT column_name(s)
FROM table_name
WHERE column_name comparison_operator ALL
(SELECT column_name
FROM table_name
WHERE condition(s));
```

8. Any:

```
Syntax: SELECT column_name(s)
FROM table_name
WHERE column_name comparison_operator ANY
(SELECT column_name
FROM table_name
WHERE condition(s));
```

9. Exists:

```
Syntax: SELECT column_name(s)
FROM table_name
WHERE EXISTS
(SELECT column_name(s)
FROM table_name
WHERE condition);
```

10. Some:

Syntax: SELECT column_name(s)

FROM table_name

WHERE expression comparison_operator SOME (subquery)

SQL COMPARISION OPERATORS:

1. Equal to:

Syntax: select * from table_name
Where column_name [comparision operator] <expression>;

```
      SQL> select * from product

      2 where price = 69;

      PRODUCT_NAME
      PRICE

      ------
      69
```

2. Greater than (>):

Syntax: select * from table_name
Where column_name [comparision operator] <expression>;

3. Less than (<):

Syntax: select * from table_name
Where column_name [comparison operator] <expression>;

4. Greater than or equal to (>=):

Syntax: select * from table_name

Where column_name [comparison operator] <expression>;

5. Less than or equal to (<=):

Syntax: select * from table_name

Where column_name [comparison operator] <expression>;

6. Not equal to (<>):

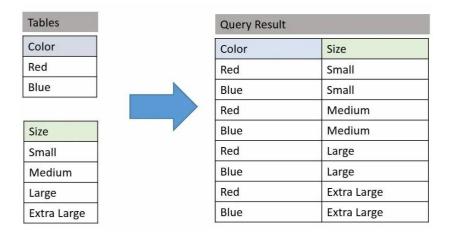
Syntax: select * from table_name

Where column_name [comparison operator] <expression>;

SQL JOINS

1. Cross join:

Syntax: SELECT TableName1.columnName1, TableName2.columnName2 FROM TableName1 CROSS JOIN TableName2 ON TableName1.ColumnName = TableName2.ColumnName;



2. Inner join:

Syntax: SELECT column_name(s)

FROM table1

INNER JOIN table2

ON table1.column_name = table2.column_name;

SQL INNER JOIN

Table: Customers

customer_id	first_name	Table: Orders				
1	John		order_id	l amount	customer	
2	Robert		1	200	10	
3	David		2	500	3	
4	John		3	300	6	
5	Betty		4	800	_5_	
			5	150	8	
	customer_id	firs	st_name	amount		
	3		David	500		
	5		Betty	800		

3. Outer left join:

Syntax: SELECT table1.column1, table2.column2....

FROM table1

LEFTJOIN table2

ON table1.column_field = table2.column_field;



4. Outer right join:

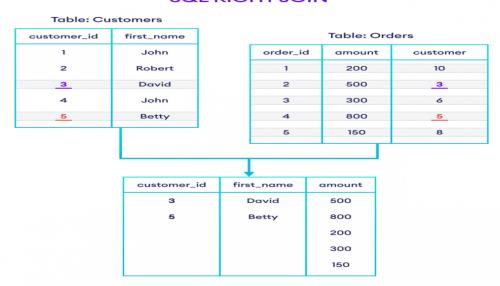
Syntax: SELECT table1.column1, table2.column2.....

FROM table1

RIGHT JOIN table2

ON table1.column_field = table2.column_field;

SQL RIGHT JOIN



5. Outer full join:

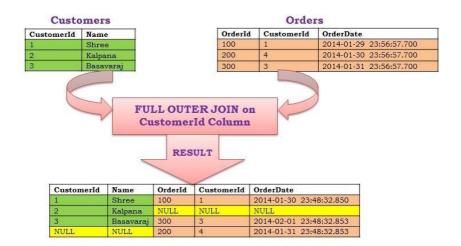
Syntax: SELECT *

FROM table1

FULL OUTER JOIN table2

ON table1.column_name = table2.column_name;

FULL OUTER JOIN



SQL CONSTRAINTS:

1. Not Null:

Syntax:

ALTER TABLE Persons

MODIFY COLUMN Age int NOT NULL;

```
SQL> alter table Employees2 modify emp_name varchar2(20) constraint Employees2_empname_NN not null;
Table altered.
SQL> desc Employess2
ORA-04043: object Employess2 does not exist
SQL> desc Employees2
                                           Null?
Name
EMP_ID
                                                     NUMBER(38)
 EMP_NAME
                                           NOT NULL VARCHAR2(20)
DEPT
                                                     VARCHAR2(10)
SALARY
                                                     NUMBER(38)
CITY
                                                     VARCHAR2(20)
 PINCODE
                                                     NUMBER(38)
```

2. Unique constraints:

Syntax:

ALTER TABLE table_name

ADD CONSTRAINT unique_constraint_name UNIQUE(column_name1, column_nam2);

```
SQL> desc Employees2
                                            Null?
Name
                                                      Type
                                                      NUMBER(38)
EMP_ID
EMP_NAME
                                            NOT NULL VARCHAR2(20)
DEPT
                                                      VARCHAR2(10)
SALARY
                                                      NUMBER(38)
CITY
                                                      VARCHAR2(20)
PINCODE
                                                      NUMBER(38)
GENDER
                                                      CHAR(1)
SQL> alter table Employees2 add constraint Employees2_EMP_ID_un unique(emp_id);
Table altered.
```

3. Check constraints:

Syntax: alter table table_name

Add constraint column_name_check check (column_name in (condition));

```
EMP_ID EMP_NAME
                                     DEPT
                                                       SALARY CITY
  PINCODE G
   104 sunil
800004 M
                                                        10000 Kolkata
   105 sunil
800005 M
                                                        15000 Kolkata
   106 sonam
800006 F
                                                       115000 Ranchi
                                     HR
   EMP_ID EMP_NAME
                                     DEPT
                                                       SALARY CITY
  PINCODE G
   107 sonam
800007 F
                                     HR
                                                        48000 Mumbai
   108 Priyanka
800008 F
                                                        70000 Banglore
SQL> alter table Employees2
2 add constraint gender_check check(Gender in('M', 'F'));
able altered.
```

4. Primary Key:

Syntax:

ALTER TABLE table_name

ADD CONSTRAINT constraint_name PRIMARY KEY (column1, column2, ... column_n);

```
SQL> alter table Employees2 add constraint Employees2_pk primary key(Email_Id);
Table altered.
SQL> desc Employees2
                                            Null?
Name
                                                     Type
 EMP_ID
                                                     NUMBER(38)
 EMP_NAME
                                            NOT NULL VARCHAR2(20)
 DEPT
                                                     VARCHAR2(10)
 SALARY
                                                     NUMBER(38)
                                                     VARCHAR2(20)
 CITY
 PINCODE
                                                     NUMBER(38)
 GENDER
                                                     CHAR(1)
 EMAIL_ID
                                            NOT NULL VARCHAR2(50)
```

5. Foreign key:

```
Syntax: ALTER TABLE table_name
```

ADD CONSTRAINT constraint_name

FOREIGN KEY (column1, column2, ... column_n)

REFERENCES parent table (column1, column2, ... column n);

```
SQL> alter table department
 2 add foreign key (emp_id) references Employees2(emp_id);
Table altered.
SQL> desc Employees2
Name
                                           Null?
                                                   Type
                                                    NUMBER(38)
EMP ID
EMP_NAME
                                           NOT NULL VARCHAR2(20)
DEPT
                                                    VARCHAR2(10)
SALARY
                                                    NUMBER(38)
CITY
                                                    VARCHAR2(20)
PINCODE
                                                    NUMBER(38)
GENDER
                                                    CHAR(1)
EMAIL_ID
                                           NOT NULL VARCHAR2(50)
SQL> desc department
Name
                                           Null?
                                                    Type
EMP_ID
                                                    NUMBER
 MOBILE_NO
                                                    NUMBER
```