Unit 1 - Chapter 4,5

```
CREATE DATABASE DatabaseName;
SHOW DATABASES;
USE DatabaseName;
DROP DATABASE DatabaseName;
```

```
CREATE TABLE table_name(
   column1 datatype,
   column2 datatype,
   column3 datatype,
   .....
   columnN datatype,
   PRIMARY KEY( one or more columns )
);
```

Example:

```
SQL> CREATE TABLE CUSTOMERS(

ID INT NOT NULL,

NAME VARCHAR (20) NOT NULL,

AGE INT NOT NULL,

ADDRESS CHAR (25),

SALARY DECIMAL (18, 2),

PRIMARY KEY (ID)

);
```

Basic syntax of DROP TABLE statement is as follows:

```
DROP TABLE table_name;
```

The SQL INSERT INTO syntax would be as follows:

```
INSERT INTO TABLE_NAME VALUES (value1,value2,value3,...valueN);
```

Example:

```
INSERT INTO CUSTOMERS VALUES (7, 'Muffy', 24, 'Indore', 10000.00 );
```

If you want to fetch all the fields available in the field, then you can use the following syntax:

```
SELECT * FROM table_name;
```

Following is an example, which would fetch ID, Name and Salary fields of the customers available in CUSTOMERS table:

```
SQL> SELECT ID, NAME, SALARY FROM CUSTOMERS;
```

SQL-WHERE Clause

SQL> SELECT ID, NAME, SALARY
FROM CUSTOMERS
WHERE SALARY > 2000;
SQL> SELECT ID, NAME, SALARY
FROM CUSTOMERS
WHERE NAME = 'Hardik';

SQL - AND and OR Operators

SQL> SELECT ID, NAME, SALARY

FROM CUSTOMERS

WHERE SALARY > 2000 AND age < 25;

SQL> SELECT ID, NAME, SALARY

FROM CUSTOMERS

WHERE SALARY > 2000 OR age < 25;

SQL-UPDATE Query

SQL> UPDATE CUSTOMERS

SET ADDRESS = 'Pune'

WHERE ID = 6;

SQL> UPDATE CUSTOMERS

SET ADDRESS = 'Pune', SALARY = 1000.00;

SQL - DELETE Query

SQL> DELETE FROM CUSTOMERS

WHERE ID = 6;

If you want to DELETE all the records from CUSTOMERS table, you do not need to use WHERE clause and DELETE query would be as follows:

SQL> DELETE FROM CUSTOMERS;

SQL-LIKE Clause

Following is an example, which would display all the records from CUSTOMERS table where SALARY starts with 200:

SQL> SELECT * FROM CUSTOMERS

WHERE SALARY LIKE '200%';

WHERE SALARY LIKE '%2'	Finds any values that end with 2
WHERE SALARY LIKE '%200%'	Finds any values that have 200 in any position

SQL-ORDER BY Clause

Following is an example, which would sort the result in ascending order by NAME and SALARY:

SQL> SELECT * FROM CUSTOMERS

ORDER BY NAME, SALARY;

SQL> SELECT * FROM CUSTOMERS

ORDER BY NAME DESC;

SQL> SELECT * FROM CUSTOMERS

ORDER BY NAME, SALARY;

SQL> SELECT * FROM CUSTOMERS

ORDER BY NAME DESC;

SQL - Distinct Keyword

SQL> SELECT DISTINCT SALARY FROM CUSTOMERS ORDER BY SALARY;

SQL - ALTER TABLE Command

The basic syntax of **ALTER TABLE** to add a new column in an existing table is as follows:

ALTER TABLE table_name ADD column_name datatype;

The basic syntax of ALTER TABLE to **DROP COLUMN** in an existing table is as follows:

ALTER TABLE table_name DROP COLUMN column_name;

The basic syntax of ALTER TABLE to change the **DATA TYPE** of a column in a table is as follows:

ALTER TABLE table name MODIFY COLUMN column name datatype;

The basic syntax of ALTER TABLE to add a **NOT NULL** constraint to a column in a table is as follows:

ALTER TABLE table_name MODIFY column_name datatype NOT NULL;

The basic syntax of ALTER TABLE to **ADD UNIQUE CONSTRAINT** to a table is as follows:

ALTER TABLE table name

ADD CONSTRAINT MyUniqueConstraint UNIQUE(column1, column2...);

The basic syntax of ALTER TABLE to **ADD CHECK CONSTRAINT** to a table is as follows:

ALTER TABLE table_name

ADD CONSTRAINT MyUniqueConstraint CHECK (CONDITION);

The basic syntax of ALTER TABLE to ADD PRIMARY KEY constraint to a table is as follows:

ALTER TABLE table name

ADD CONSTRAINT MyPrimaryKey PRIMARY KEY (column1, column2...);

The basic syntax of ALTER TABLE to **DROP CONSTRAINT** from a table is as follows:

ALTER TABLE table name

DROP CONSTRAINT MyUniqueConstraint;

The basic syntax of ALTER TABLE to **DROP PRIMARY KEY** constraint from a table is as follows:

ALTER TABLE table name

DROP CONSTRAINT MyPrimaryKey;

SQL-TRUNCATE TABLE Command

The basic syntax of **TRUNCATE TABLE** is as follows:

TRUNCATE TABLE table name;

Rename Table

alter table table_name rename to new_table_name;

Rename Column Name

Syntax

RENAME COLUMN <u>table-Name</u>.simple-Column-Name TO <u>simple-Column-Name</u>

Examples

To rename the manager column in table employee to supervisor, use the following syntax:

RENAME COLUMN EMPLOYEE.MANAGER TO SUPERVISOR