# Department of Computer Science and Engineering Anna University, Chennai. CS6106 - Database Management Systems

Week 2(March 01, 2021)

```
Create table
Syntax:
CREATE TABLE table name
column name1 data type(size) constraint name,
column name2 data type(size) constraint name,
column name3 data type(size) constraint name,
);
Inserting Records:
Syntax:
INSERT INTO table name VALUES (value1, value2, value3,...);
Insert into table name VALUES (&value1,&value2,&value3,...);
Deleting Records:
Syntax:
DELETE FROM table name
WHERE some column=some value;
Modification of Records:
i. Altering Records:
Syntax:
   • ALTER TABLE table name
       ADD column name datatype
      ALTER TABLE table name
       DROP COLUMN column name
```

### ii.. Updating Records:

### Syntax:

UPDATE table\_name SET column1=value1,column2=value2,... WHERE some\_column=some\_value;

## **Viewing Records:**

### Syntax:

- SELECT TOP number|percent column\_name(s) FROM table name;
- SELECT column\_name(s)
   FROM table\_name
   WHERE ROWNUM <= number;</li>
- SELECT column\_name(s)
   FROM table\_name
   WHERE column\_name LIKE pattern;

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- SELECT column\_name(s)
   FROM table\_name
   WHERE column\_name IN (value1,value2,...);
- SELECT column\_name(s)
   FROM table\_name
   WHERE column\_name BETWEEN value1 AND value2;
- SELECT column\_name AS alias\_name FROM table name;

#### **Constraints:**

- NOT NULL Indicates that a column cannot store NULL value
- UNIQUE Ensures that each row for a column must have a unique value
- **PRIMARY KEY** A combination of a NOT NULL and UNIQUE. Ensures that a column (or combination of two or more columns) have an unique identity which helps to find a particular record in a table more easily and quickly
- **FOREIGN KEY** Ensure the referential integrity of the data in one table to match values in another table
- CHECK Ensures that the value in a column meets a specific condition
- **DEFAULT** Specifies a default value when specified none for this column

#### **Exercises**

- 1. Write a query to create a table employee with empno, ename, designation, and salary.
- 2. Write a query to display the column name and datatype of the table employee.
- 3. i)Write a query to create a table from an existing table with all the fields.
  - ii) Write a query to create a table from an existing table with selected fields.
  - iii)Write a query to create a new table from an existing table without any record.
- 4. i)Write a query to Alter the column EMPNO NUMBER(4) TO EMPNO NUMBER(6).
  - ii) Write a query to Alter the table employee with multiple columns (EMPNO, ENAME.)
- 5. i) Write a query to add a new column in to employee
  - ii) Write a query to add multiple columns in to employee
- 6. i) Write a query to drop a column from an existing table employee
  - ii) Write a query to drop multiple columns from employee
- 7. Write a query to rename table emp to employee.
- 8. Write a query to create primary constraints with column level
- 9. Write a query to create foreign key constraints with column level
- 10. Write a query to create Check constraints with column level
- 11. Write a query to create unique constraints with column level
- 12. Write a query to create Not Null constraints with column level
- 13. Write a query to create Null constraints with column level