2022 NOVEMBER

S	M	T	W	T	F	S
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27	28	29	30			

JAN

1

THURSDAY
2022 DECEMBER

WEEK 49
335-030

SQL (Structured Query language)

A standard language for accessing and manipulating database.

SQL do → insert, update, delete, create, retrieve, execute, queries

DBMS	RDBMS
✳ Store as a file	✳ Store in a tabular form
✳ No Normalization	· Nor
✳ No ACID property	
✳ One user at a time	
✳ Hierachal arrangement	

Data definition language   create, alter, drop
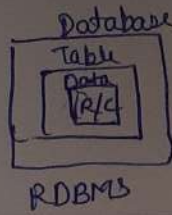
Data Manipulation language   select, insert, delete, update

Data Control language   grant, revoke

Database   It is a system that allow user to store and organise data.

CREATE DATABASE xyz

JANUARY 2023

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FRIDAY
DECEMBER 2022

2

WEEK 49
336-029

Database
Table
Data R/c

RDBMS

Create Table

Create table (database). name
(
    Person ID   int ;
    First Name   varchar (25) ;
    lastName   varchar (255) ;
    city   varchar (255) ;
    salary   int
);

Insert into

insert into (database). name (person ID, firstname, lastname, city, salary)

values (1, "Ankita", "Gupta", "xyz", 300);

to check → SELECT * FROM database. name ;

AND and OR operator

Both condition true = AND
Any one true = OR

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JANUARY 2023

3 SATURDAY
2022 DECEMBER

WEEK 49
337-028

select * from database.name where
firstname = "Ankita" AND last name = "Gupta";

UPDATE

UPDATE table name
SET Cust name = "Ank", Age = 20
WHERE Cust ID = 42;

DELETE

DELETE FROM tablename WHERE Cust ID = 3;

ALTER TABLE (add, delete, modify)

ALTER table_name
ADD COLUMN column_name;

DROP & Truncate table

4 SUNDAY

DROP TABLE tablename;
(delete table)

TRUNCATE TABLE tablename;
(delete data not table)

SELEC
8 SELE
9 SELE
10 SELE
11 WHER
12 S
1 Operato
2 Arithm
3 Compari
Logical
4 Bitwise
5 LIMIT
6
ORDER

JANUARY 2023

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MONDAY

DECEMBER 2022

5

WEEK 50
339-026

SELECT

8   SELECT   column name   FROM   table name ;

9   SELECT   *   FROM   table name ;

10   SELECT   DISTINCT   Columname   FROM   table name ;

11   **WHERE**   (filter record)

12   SELECT   columnname   FROM   tablename
     Where   condition ;

Operator

Arithmetic   (* , + , - , %)
Comparison   (> , = , >= , !=)
Logical   (IN, All , NOT, ANY, LIKE)
Bitwise   (AND , OR)

LIMIT clause

     SELECT   column name   FROM   tablename
     LIMIT   5 ;

ORDER By clause

     SELECT   column name   FROM   tablename
     ORDER   BY   columnname   ASC ;

6 TUESDAY
2022 DECEMBER

WEEK 50
340-025

2022 NOVEMBER

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FUNCTION

The database objects that contain a set of SQL statement to perform a specific task.

- Accepts input parameter
  - Perform action
  - Return the result

Type of function

1.) System define   2) User define

ex: rand(), round(),
    upper(), count(), sum()

STRING FUNCTION

UPPER()   LOWER()   LENGTH()   SUBSTRING()
    NOW()   CONCAT()   TRIM()

AGGREGATE FUNCTION

perform a calculation on multiple value and return a single value.

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WEDNESDAY
DECEMBER 2022

17

WEEK 50
341-024

Delete	Drop 'A'	Truncate
Remove row from a table.	Remove table	Remove all row reset table identity
DML	DDL	DDL
Roll back	Can't	Can't

Data Definition language	Data Manpulation language	DCL	Transaction CL
→ Create	→ Select	→ Revoke	→ Commit
→ Alter	→ Insert	→ Grant	→ Roll back
→ Drop	→ Update		→ Save Point
→ Truncate	→ delete		
→ Rename			

JOIN

A Join combine row from two or more table based on a related column between them

Foreign Key establishes a link between two table, referencing the primary key of another table.

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THURSDAY

2022 DECEMBER

WEEK 50
342-023

Start with 'A'

Select * from (table name). WHERE NAME LIKE 'A%';