

Task-2: Generating design of other traditional database model

① Creating the archival/Network model of the database by enhancing the Sound abstract data by Performing following tasks forms of inheritance.

② Identify the Specificity of each relationship, find and form surplus relations.

b) check is a hierarchy/has a hierarchy and performs generalization and/or Specialization relationship.

c) Find the domain of the attribute and perform a check constraint to the applicable.

d) Rename the relations.

e) Perform SQL relations using DDL, DCL commands.

IMPLEMENTATION OF DDL, DML, DCL and TCL commands of SQL:

Aim:- Implementation of DDL, DML, DCL and TCL commands of SQL with Suitable examples.

Objectives:-

① To understand the different issues involved in the design and implementation of a database system.

② To understand and use data definition language to write query for a database.

Theory:- Oracle has many tools such as SQL*Plus, Oracle Forms, Oracle report writer, Oracle graphics etc...

DATA DEFINITION LANGUAGES:-

DDL Statement are used to define the database structure or schema.

Create:- To make a new database. table, index or stored query. A create statement in SQL creates an object inside of a relational DBMS.

Syntax:- CREATE TABLE table-name

(column-name 1 datatype [size], column-name 2 data-type [size]...
column-name n data-type [size]);

Alter:- To modify an existing database object. After the structure of the database

• To add a Column in a table

Syntax:- ALTER TABLE table-name ADD column column-name data-type [size];

Syntax: ALTER TABLE table-name DROP column column-name;

Syntax: ALTER TABLE table-name MODIFY column-name
datatype (new-size);

RENAME:-

Syntax: ALTER TABLE table-name RENAME column old-column-name
to new-column-name;

DESCRIBE:-

Syntax: DESC table-name;

TRUNCATE TABLE:- Remove all records from a table, including
all spaces allocated for the records are removed.

Syntax: TRUNCATE TABLE table-name;

DATA MANIPULATION LANGUAGES:-

DML allows the users to query and manipulate
data in existing schema in object. It allows following data to
insert, delete, update and recovery data in schema object.

INSERT:- Values can be inserted into table using insert commands.
There are two types of insert commands. They are multiple value
(using '&' symbol) & single value (without using '&' symbol).

Syntax:-

INSERT INTO table-name VALUES (value 1, value 2,);

(or)

INSERT INTO table-name (column 1, column 2,)

VALUES (value 1, value 2,);

UPDATE:- This allows the users to update the particular co-
lumn value using the where clause condition.

Syntax:-

UPDATE <table-name> SET <col 1 = value> WHERE <col = values>;

DELETE:- This allows you to delete the particular column
values using where clause condition.

Syntax:-

DELETE FROM <table-name> where <conditions>;

SELECT: It is used to query a database and to retrieve the information from the database. The SELECT statement can be used in many ways. They are

① Selecting some columns: To select specified no. of columns from the table the following command is used.

Syntax:-

SELECT column_name FROM table_name;

② Select using DISTINCT: The DISTINCT keyword is used to return only different values i.e., this command does not select the duplicate values from the table.

Syntax:-

SELECT DISTINCT column name(s) FROM table_name;

③ Select using BETWEEN: It can be used to get those items that fall within a range.

Syntax:-

SELECT column name FROM table_name WHERE column name BETWEEN value 1 and value 2;

④ RENAMING: The select statement can be used to rename either a column or the entire table.

Syntax:-

Renaming a column;

SELECT column name as new name FROM table_name;

⑤ SORTING: The select statement with the order by clause is used to sort the contents

Table either in asc or desc order.

Syntax:-

SELECT column name FROM table_name WHERE condition ORDER by column name ASC/DESC;

⑥ TO SELECT BY MATCHING SOME PATTERNS: The select statement along with like clause is used to match strings. The like condition is used to specify a search pattern in a column.

SYNTAX:-

SELECT columnname FROM table-name WHERE Column name
Like "%" or "-";

% : Matches any substring

- : Matches a single character.

⑦ SELECT using AND, OR, NOT : we can combine one or more conditions in a select statement using the logical operations AND, OR, NOT

Syntax:

SELECT columnname FROM table-name WHERE condition 1
LOGICAL OPERATOR condition 2.

DATA CONTROL LANGUAGES:

① CREATE : Create user Adithya identified by Adi;
user created.

② Grant : Grant all privileges to Adithya;
Grant Succeeded

③ Revoke : Revoke all privileges from Adithya;
Revoke Succeeded.

TRANSACTION CONTROL LANGUAGES:

① Commit :- Commit;
Commit complete

② Save point :- Save point k1;
Save point created.

③ Roll back :- roll back to k1;
roll back complete.

SQL> create table adithya(name varchar(7),vtu number(8),address varchar(12));

Table created.

SQL> desc adithya

Name	Null?	Type
NAME		VARCHAR2(7)
VTU		NUMBER(8)
ADDRESS		VARCHAR2(12)

SQL> alter table adithya add units varchar(10);

Table altered.

SQL> alter table adithya drop column units;

Table altered.

SQL> alter table adithya modify vtu number(5);

Table altered.

SQL> alter table adithya rename column address to addresssss;

Table altered.

SQL> desc adithya

Name	Null?	Type
NAME		VARCHAR2(7)
VTU		NUMBER(5)
ADDRESSSSS		VARCHAR2(12)

SQL> insert into adithya values('cool',1228,'lucky');

1 row created.

SQL> insert into adithya values('hot',2812,'kala');

1 row created.

SQL> select*from subject;

no rows selected

SQL> select*from adithya;

NAME	VTU	ADDRESSSSS
cool	1228	lucky
hot	2812	kala

SQL> update adithya set name='winter' where name='cool';

1 row updated.

```
SQL> insert into adithya values('medium',1122,'kalu');
```

1 row created.

```
SQL> select*from adithya;
```

NAME	VTU ADDRESSSS
winter	1228 lucky
hot	2812 kala
medium	1122 kalu

```
SQL> delete from adithya where name='medium';
```

1 row deleted.

```
SQL> select*from adithya;
```

NAME	VTU ADDRESSSS
winter	1228 lucky
hot	2812 kala

```
SQL> select distinct name,vtu,addresssss from adithya;
```

NAME	VTU ADDRESSSS
winter	1228 lucky
hot	2812 kala

```
SQL> select*from adithya where vtu between 1000 and 2000;
```

NAME	VTU ADDRESSSS
winter	1228 lucky

```
SQL> select vtu as vtu_no from adithya;
```

VTU_NO
1228
2812

```
SQL> select addresssss from adithya where name like '%f%';
```

no rows selected

```
SQL> select name from adithya where name='winter' and addresssss='lucky' and name like '%f%';
```

no rows selected

SQL> create user adithya identified by kunal;

User created.

SQL> commit;

Commit complete.

SQL> savepoint k1;

Savepoint created.

SQL> rollback to k1;

Rollback complete.

SQL>

Result:- Thus, Generating design of other traditional database model was executed successfully.

VEL TECH	
X NO.	2
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	4
TOTAL (20)	19
SIGN WITH DATE	

20/8/21