

111111

1. The first part of the text discusses the importance of understanding the context of a document.

4.10.1

9.11.1

2/1/14

about

columnwise

reporting
change

Select

now rise

for string/
textual data

Feb. 20, 1908

is NOT NULL,

→ starts w/ A

10

ding
orden.

DBMS - lab

SQL Plus

student/student@172.16.1.210:1521/oracle

SQL>

Emp

Empno	Number
ENAME	VARCHAR2
JOB	CHAR
MGR	Number
HIREDATE	DATE
SAL	Number
COMM	Number
DEPTNO	Number

Dept

DNO	Number
DNAME	VARCHAR
LOCATION	VARCHAR

- 1) Add a new attribute phone to the table emp
- 2) change the datatype of job from char to varchar
- 3) Remove the attribute phone
- 4) Describe the table
- 5) Insert atleast 5-7 records per table

• Drop - to delete the table (but table must have contents) ~~at~~

Drop table table-name

• Alter - modify str. of existing table

alter table table-name

add phone number(10);

modify

rename

drop/delete

insert into student values(
88, '88', '88', '8888');

Enter new record for roll:

to delete all records:-

delete from student

to delete particular record:-

delete from student where roll=01, name like 'Ansari';
roll

to update:-

update emp

set salary = 5000

update emp

set salary = salary + 5000

where empno = 14;

~~check (clientno)~~

check(clientno LIKE 'c%');

SELECT COUNT(CITY) - COUNT(DISTINCT(CITY)) FROM STATION;

LEN(string)

order by column1, column2, ... ASC/DESC;

top 1

salespeople (cnum, sname, city, comm)
 customer (cnum, cname, city, rating, snum)
 orders (onum, Amount, odate, cnum, snum)

Foreign key - normal key in one table referring to primary key of other table

domain
 data size
 " attr } must be same

create table salespeople (cnum number(4) primary key,
 sname varchar2(30),
 city " (15),
 comm number(7,2));

create table customer (cnum number(4) primary key,
 cname varchar2(30),
 city " (15),
 rating number(4),
 snum number(4) references salespeople(snum));

create table orders (onum number(4) primary key,
 amount number(7,2),
 odate date,
 cnum number(4) references customer(cnum),
 snum " " " salesperson(snum));

Aggregate func → works on single col → single value result

sum
 avg
 max
 min
 count

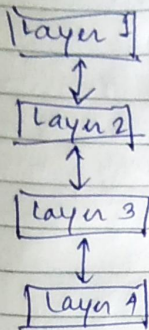
select count(*) from tablename;
 select max(amount) "Maximum Amount"
 from orders;

Type of Connection

Point to point

Multipoint
Bus

* Layered architecture



Database view is a subset of a database and it is derived from base relations as a result of a query

EMP			
ENO	ENAME	TITLE	

→

ENO	ENAME	
	Susan	

View provides security from unauthorized access.

CREATE VIEW CSAN (ENO, ENAME) AS SELECT ENO, ENAME from EMP;

view in distributed DBMS

relⁿ

It may be derived from fragmented, stored at diff. sites.

When a view is defined its name and its retrieval query are stored in a catalogue.

View definitions can be centralised and at one side, partially replicated or fully replicated.

However evaluating views in distributed systems can be costly. In centralised system views can be modified as a base relⁿ unlike in distributed relⁿ

Query Modification
 Mapping the query expressed on views into query expressed as base rel^s is done using query modification

Select Ename, Eno, RESP from
 Emp, ASg
 where Emp.Eno = ASg.Eno

← join query

Eno	Ename	PNo	Phon no.
10		10	-
11		11	-
12		12	-
		13	-

duplicate

Eno	Ename	Phon no.
10		-
10		-
11		-
11		-
12		-
12		-
13		-

and the modified query will be processed by the query processor

In distributed DBMS also we use query modification for mapping. The qualification defining a view is found in the distributed database catalogue and then merged w/ the query to provide query on base rel^s.

Such a query is called distributed query.

To avoid view derivation actual versions of the view are maintained called materialized views.

It stores the tuples of the views like other database tuples through indices which makes the access to this materialised views faster.

This materialized views can involve aggregate func, grouping etc.

Maintenance of materialized views: -

As materialized views are a copy it must be consistent with the base data. These are more complex as it involves complex queries.

~~Refreshing the data~~

refreshing can be done ~~by~~ in diff times

① periodically

② forcedly

③ lazily