SQL Sequel

Full form - Structured Query Language

Data - Varible (Temporary)
File (Permanent)

Text, Audio, Video, Database [Oracle XE, MySQL, MS-SQL Server]

Table -

Sr. No	Name	Address
1	A	Sagar
2	B	indore

SQL > Connect
Enter user name : System.
Enter Password :
Connected.

SQL > Create user [User name] identified by [Password.];
User Created.

Connect this user.

SQL> grant connect, resources to [User name];
Grant Succeeded.

SQL> connect username / pass.;
Connected.

SQL > Create table [table name] (rollno. number(3),
name varchar(10));
table created.

Data input in table.

SQL > insert into tablename values(101, 'veer');
1 row created.

Variables in SQL.

int ----> number (size) like number(4);
Char ----> varchar(size) like varchar(10);
Date ----> date

Show table.

SQL > Select * from tablename ;

result show

According to required show.

SQL > Select Sr.No, name, address. from tablename; ——→ etc.

According to name bize search -

SQL > Select * from tablename order by name ; and order by Salary, address S.No. date desc etc.

SQL > Select * from tablename order by name desc ; Same syntax

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Show one name

SQL > ~~Show~~ Select * from tablename where name = 'veer' ;

and Salary, address, S.No. date etc.

Same Syntax

Condition bize check

SQL > Select * from tablename where Salary < 3000 ; and Salary > 3000 . <=, <> date Same Syntax !=

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null data Search.

SQL > Select * from tablename where Salary is null ; - and name null, date null Address null etc is null

Same to not null

SQL > Select * from table name where Salary is not null ; ⇒ Same Syntax

and operator.

SQL > Select * from tablename where address = 'Sagar' and Salary > 60000 and name and date etc.

OR Operator

SQL > Select * from tablename where name = "veer" OR address = 'Sagar'; OR and name Salary etc..

1. Primary Key.

a) No duplicates.
b) Not null
c) Max. 1 per table
d) Used to link a table with another.

2. Not null.

a) not null.

3. Check.

a) Conditional.

check row and Column Command.

SQL > desc tablename ;

Data permanent saved Command.

SQL > Commit ;

Commit Complete.

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data update Command.

SQL > update tablename set Sadary = 20000 where name = 'veer' ;

and name, address, date etc updated.

Same Syntax.

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add row and Column, Command.

SQL > alter table tablename add (gender char) ;

↓ we another variable used.

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drop row and Column Command.

SQL > alter table tablename drop column gender ; ——— > etc. drop.

Modify row and Column. Command.

SQL> alter table tablename modify (name varchar(20)) ; ——→ etc modify.

Delete Command.

SQL > delete from student where rollno: = 101 ; → etc. information.
row deleted. (tablename)

SQL > delete from tablename ; → all row deleted.
all row deleted.

SQL > truncate table tablename;
table truncated.

SQL > drop table tablename.
table dropped.

SQL>
Create table ~~her~~ account (acno. number(10) Primary key, name varchar(10) not null, address varchar(10) not null, balance number(5) check(balance >1000));

uses of Primary, notnull, check.

SQL > Create table employee (empcd number(3) primary key, name varchar(10) notnull, Salary number(10) check (salary >15000), deport varchar(12) check (depon in ('IT', 'HR));

Connect to one more table command.

references

SQL> Create table Stock(pno number(3) primary key, pname varchar(10), company varchar(10));

Keyword used for connected.

after inserting.

PNO	pname	Company
1	Monitor	Dell
2.	Mouse	Logitech
3.	Keyboard	HP

SQL> Create table Sales(billno number(3) primary key, cname varchar(10) not null, pno number(3) references stock);

Conditions for connected. → table connected.

1) Data type same like. number → number etc.
2) Same size for Data types like. number(10) → number(10)
3) references keyword used for connected.

SQL> insert into Sales values(101, 'veer', 2);

→ Range of Parent primary key.

if out of range parent key then error Primary key not found.

Joins

joins are used to query 2 or more tables using a single Select Statement.

1. **Equi / Simple / Inner join** - An equi displays the data from 2 or more tables, that is common in all the tables.

example - Stock, Sales ~~tables~~ tables.

SQL> Select Stock.pno, pname, company, billno, cname from Stock, Sales where Stock.pno = Sales.pno;

Stock Sales.
P.NO = PNO

PNO	PNAME	COMPANY	BILLNO	CNAME
2	Mouse	Logitech	101	Veer
4	CPU	Intel	102	Hari

2. out join

i) Left out join - Displays all the data from the left / master tab irrespective of whether there is a corresponding entry in the right / child table.

Syntax like pno = pno(+);

example, Stock, Sales tables ;

SQL > Select stock.pno, pname, company, billno, cname from stock, Sales where stock.pno = Sales.pno(+) ;

PNO	PNAME	COMPANY	BILLNO.	CNAME
1.	Moniter	Dell		
2.	Mouse	Logitech	101	Veer
3.	keyboard	HP		
4.	CPU	Intel	102	Hari

ii) Right Outer join :- Displays all the data from the child table irrespective of whether there is a corresponding entry in the parent table.

A right outer join should always return the same result as inner join. This is because it is not logically correct that the child table contains some records that are not parent in the parent tables.

Syntax = like pno(+) = pno ;

SQL > Select stock.pno, pname, company, billno, cname from stock, Sales where stock.pno(+) = Sales.pno ;

PNO	PNAME	COMPANY	BILLNO	CNAME
2.	Mouse	Dell	101	Veer
4.	keyboard	HP	102	Hari

Same result as inner join
Sample join.