**PRACTICAL ASSIGNMENT SQL**

**ASSIGNMENT 1**

Q1. Write an SQL command that will create a table named Friend with the following fields and types: - idno NUMERIC (10), fname VARCHAR (24), address VARCHAR (30), age NUMERIC (10), giftvalue NUMERIC (10, 2);

Ans :

create table friend (idno numeric(10), fname varchar(24), address varchar(30), age numeric(10), giftvalue numeric(10,2));

Q2. Insert the following items in the table you have created

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Idno** | **FName** | | | **Address** | | **Age** | | **Giftvalue** |
| 01 | Ram | | | Dwarka sector 10 | | 41 | | 200 |
| 02 | Sita | | | Janakpuri block c | | 26 | | 250 |
| 03 | | Rajesh | Dwarka sector 15 | | 23 | | 200 | |
| 04 | | Ajit | Noida sector 11 | | 35 | | 150 | |
| 05 | | Rita | Noida sector 11 | | 40 | | 200 | |

Ans :

insert into friend values('01','Ram','Dwarka Sector 10','41','200');

insert into friend values('02','Sita','Janakpuri Block C','26','250');

insert into friend values('03','Rajesh','Dwarka Sector 15','23','200');

insert into friend values('04','Ajit','Noida Sector 11','35','150');

insert into friend values('05','Rita','Noida Sector 11','40','200');

Q3. Write an SQL query to display all the records.

Ans:

Select \* from friend;

Q4. Write an SQL query to display all the records where age is >40.

Ans:-

Select \* from friend where age > '40';

Q5. Write an SQL query to display Fname, Age from the table.

Ans:-

select Fname, Age from friend;

Q6. Write an SQL query to display Fname, Age, Gift value where Age > 35 from the table.

Ans:-

select Fname, Age, GiftValue from friend where Age > '35';

Q7. Write an SQL query to display all record where Gift value is > 200 and Age >20.

Ans:-

Select \* from friend where Giftvalue > '200' and Age > '20';

Q8. Write an SQL query to display all record where Gift vale is > 200 or Age >20.

Ans:-

Select \* from friend where Giftvalue > '200' or Age > '20';

**ASSIGNMENT 2**

Q1.Create a table with the following specifications

|  |  |
| --- | --- |
| **Field name** | **Data type** |
| EMPID | Numeric(10) |
| DEPT | CHAR(5) |
| EMPNAME | VARCHAR(15) |
| ADDRESS | VARCHAR(30) |
| SALARY | NUMERIC(7) |

Ans:-

create table Employee (Empid numeric(10), Dept char(5), Empname varchar(15), Address varchar(30), Salary numeric(7));

Q2. Make the following entries in the table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EMPID | DEPT | EMPNAME | ADDRESS | SALARY |
| 101 | RD01 | Prince | Park Way | 15000 |
| 102 | RD01 | Harry | Pebble Street | 12000 |
| 103 | RD02 | Tom | Park Avenue | 11000 |
| 104 | RD02 | Susan | Model Town | 10000 |
| 105 | ED01 | Mark | Victor Crescent | 10000 |
| 106 | AD01 | Francis | Chelmsford Park | 13000 |
| 107 | GR01 | Robert | Downtown Cross | 14000 |
| 108 | RD03 | Philip | Park Avenue | 15000 |
| 109 | RD03 | Henry | Malibu Beach | 14000 |
| 110 | AD01 | Frank | St. Peters Lane | 7000 |

Ans:-

insert into Employee values ('101', 'RD01', 'Prince', 'Park Way','15000');

insert into Employee values('102','RD01', 'Harry', 'Pebble Street','12000');

insert into Employee values('103','RD02', 'Tom', 'Park Avenue','11000');

insert into Employee values('104','RD02', 'Susan', 'Model Town','10000');

insert into Employee values('105','ED01', 'Mark', 'Victor Crescent','10000');

insert into Employee values ('106','AD01', 'Francis', 'Chelmsford Park','13000');

insert into Employee values('107','GR01', 'Robert', 'Downtown Cross','14000');

insert into Employee values('108','RD03', 'Philip', 'Park Avenue','15000');

insert into Employee values('109','RD03','Henry', 'Malibu Beach','14000');

insert into Employee values('110','AD01','Frank', 'St. Peters Lane','7000');

1. Write an SQL query to display all the records

Ans:-

Select \* from Employee;

1. Write an SQL query to display all the records where RD01is the department.

Ans:-

Select \* from Employee where Dept='RD01';

1. Write an SQL query to display EMPNAME, DEPT, Salary from the table.

Ans:-

Select Empname, Dept, Salary from Employee;

1. Write an SQL query to display EMPNAME, DEPT, Salary from the table where salary is greater than 13000.

Ans:-

Select Empname, Dept from Employee where Salary>'13000';

1. Write an SQL query to display the record of those employees who lives in Park Avenue.

Ans:-

Select \* from Employee where Address= 'Park Avenue';

1. Display name, id of those employees who salary is 15000 and lives in Park Avenue

Ans:-

Select Empid, Empname from Employee where Salary='15000' and Address='Park Avenue';

1. Find names for all employees who work for the department RD01.

Ans:-

Select Empname from Employee where Dept='RD01;

8. How many employees work in department starting from RD.

Ans:-

Select \* from Employee where Dept like 'RD%';

9. What is the maximum and minimum of the salaries.

Ans:-

Select max (Salary) from Employee;

Select min (Salary) from Employee;

10. Name the employees and their department whose salaries are greater than 12000.

Ans:-

Select Empname, Dept from Employee where Salary>'12000';

11. List the employees in increasing order of their salaries.

Ans:-

select \* from Employee order by Salary;

12. Modify the table so that Susan is assigned department AD01.

Ans:-

update Employee set Dept='AD01' where Empname='Susan';

13. Name the employee in department RD03 who lives in Park Avenue

Ans:-

select Empname from Employee where Dept='RD03' and Address='Park Avenue';

14. Find the Average salary.

Ans:-

select avg (salary) from Employee;

15. Count the number of employees.

Ans:-

select count (salary) from Employee;

16. Find details of those employees whose salary is > the average salary for all employees

Ans:-

select \* from Employee where salary > '12000';

**Assignment 3**

1. Write an SQL command that will create a table named FriendNew with the following fields and types: idno NUMERIC(10) PRIMARY KEY, fname VARCHAR(24), address VARCHAR(30), age NUMERIC(10) , giftvalue NUMERIC(10,2).

Ans:-

create table FriendNew (Idno numeric(10)PrimaryKey, Fname varchar(24), Address varchar(30), Age numeric(10), Giftvalue Numeric(10,2));

1. Insert the following items in the table you have created

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Idno** | **FName** | **Address** | **Age** | **Giftvalue** |
| 01 | Ram | Dwarka sector 10 | 41 | 200 |
| 02 | Sita | Janakpuri block c | 26 | 250.80 |
| 03 | Rajesh | Dwarka sector 15 | 23 | 200 |
| 04 | Ajit | Noida sector 11 | 35 | 150.50 |
| 05 | Rita | Noida sector 11 | 40 | 200 |

Ans:-

insert into FriendNew values('01','Ram','Dwarka Sector 10','41','200');

insert into FriendNew values('02','Sita','Janakpuri Block c','26', '250.80');

insert into FriendNew values('03','Rajesh','Dwarka Sector 15','23','200');

insert into FriendNew values('04','Ajit','Noida Sector 11','35','150.50');

insert into FriendNew values('05','Rita','Noida Sector 11','40','200');

3.Write a SQL query to display all the records whose name starts with R.

Ans:-

Select \* from FriendNew where Fname like 'R%';

4. Write an SQL query that will insert a complete record into the Friend table with these values for the respective fields: '123', 'Anil', 'Dwarka Sector 11', 23, 29.99.

Ans:-

insert into FriendNew values(123,'Anil','Dwarka Sector 11', 23, 29.99);

5. Write an SQL query to change the age of Sita to 28.

Ans:-

Update FriendNew Set Age=28 where Fname='Sita';

6. Write an SQL query to delete the record with idno 123.

Ans:-

Delete from FriendNew where Idno=123;

7. Write an SQL query that will update the giftvalue to 49.99 for all people in the Friend table whose age is equal to or greater than 31 years.

Ans:-

Update FriendNew Set Giftvalue=49.99 where Age=31 OR Age>31;

8. Write an SQL query that will add a field named City to the Friend table with datatype as varchar and size equal to 15.

Ans:

Alter Table FriendNew Add City Varchar(15);

9. Add the name of the city for all the records in the table.

Ans:-

Update FriendNew Set City='Delhi';

10. Write a SQL query to display fname and age of all the records in ascending order.

Ans:-

Select Fname, Age from FriendNew Orderby Fname;

11. Write SQL query to get the cumulative giftvalue for all records.

Ans:-

Select Sum(Giftvalue) from FriendNew;

12. Write a query to average of the age of all the friends under the heading ‘Average Age’.

Ans:-

Select Avg(Age)'Average Age' from FriendNew;

13. Write a query to display the name and age of the youngest member.

Ans:-

Select Fname, Age from FriendNew where Age=(SelectMin(Age)from FriendNew);

14. Write a query to count the number of candidates whose age in more than 30 years.

Ans:

Select Count(\*) from FriendNew where Age>30;

15. Write a query to display the name and giftvalue of the record with highest gift value.

Ans:-

Select Fname, Giftvalue from Friendnew where Giftvalue=(Select Max(Giftvalue) from FriendNew);

16. Write an SQL query that will delete all records from the Friend table whose idno is 123.

Ans:-

Delete from FriendNew where Idno=123;

17. Write a query to delete all the records.

Ans:-

Drop Table FriendNew;