Expt No 04:

Defining Constraints on the relations

Consider project relation Project(pidnumeric,pname varchar(30),city varchar(20),age numeric)

1) Add primary key constraints to pid attribute

2) Add Not Null Constriant to city attribute

3) Add unique constraint to age value

4) Add check constraint to accept age >10

5) Drop constraint related to age attribute

Select Statement Exercise

create table employee(emp\_id CHAR(5) PRIMARY KEY,emp\_name varchar(15),job\_name varchar(10),manager\_id CHAR(5),hire\_date date ,salary int,commint,deptid char(4));

insert into employee values ('66928','BLAZE','MANAGER','68319','1991-05-01',2750,0,'3001')

insert into employee values ('67832','CLARE','MANAGER','68319','1991-06-09',2550,0,'1001')

insert into employee values ('65646','JONAS','MANAGER','68319','1991-04-02',2957,0,'2001')

insert into employee values ('64989','ADELYN','SALESMAN','66928','1991-02-20',1700,400,'3001')

insert into employee values ('65271','WADE','SALESMAN','66928','1991-09-28',1350,600,'3001');

insert into employee values ('66564','MADDAN','SALESMAN','66928','1991-09-08',1600,0,'3001');

insert into employee values ('68454','TUCKER','SALESMAN','66928','1991-02-22',1600,0,'3001');

SELECT\* FROM EMPLOYEE

insert into employee values ('68736','ADNRES','CLERK','67858','1997-05-23',1200,0,'2001');

insert into employee values ('69000','JULIUS','CLERK','67858','1997-05-23',1200,0,'2001');

insert into employee values ('69324','MARKER','CLERK','67832','1992-01-23',1400,0,'1001');

insert into employee values ('67858','SCARLET','ANALYST','65646','1997-04-19',3100,0,'2001');

insert into employee values ('69062','FRANK','ANALYST','65646','1991-12-03',3100,0,'2001');

insert into employee values ('63679','SANDRINE','CLERK','69062','1990-12-18',900,0,'2001');

Write following queries:

1. Select the name and salary of all employees whose salary is between 2000 and 3000.
2. Select the name and salary of all employees whose Hire date is between 1st Jan 92 and 31st Dec 97
3. Select the name of all employees who work in dept 1001or 2001
4. Select the name of all employees whose commission is 0.
5. Select the name of all employees who are hired after 1stsep 1992 from dept 1001
6. Select the name of all employees who do not belong to dept 1001
7. count the no of employees
8. count the no of employees hired after 13th Jan 1997
9. calculate the sum of salaries of all employees
10. calculate the average of salaries of all employees
11. Get the average,minimum,maximum salary of employees for each dept
12. Get the average, minimum, maximum salary of employees for each dept having

average salary >2000

1. Get the minimum salary of employees for each job
2. For each dept Get the minimum salary of employees who are clerk.
3. Get the minimum and maximum salary of employees for jobs in each dept.
4. Get the number of available job opportunities
5. calculate 12 times the average salary
6. Get the number of employees in each department
7. Get the total salary for each department.
8. Get the total salary for each job.