**DBMS mini-project implementation(TOPIC:WILDLIFE PARK)**

**NAME:SIDDHARTH DAMOR**

**ROLL NO.:U18CO079**

create table Park(

P\_id number,

Name varchar(15),

contact number,

location varchar(15),

primary key (P\_id));

create table visitor(

P\_id number,

Fname varchar(10),

Lname varchar(10),

foreign key (P\_id) references Park(P\_id) ,

primary key(P\_id,Fname,Lname)

);

create table ticket(

T\_id number,

price number,

bdate date,

year number,

primary key (t\_id));

create table animal\_kind(

p\_id number,

a\_name varchar(15),

a\_count number,

foreign key (p\_id) references park(p\_id),

primary key(a\_name,p\_id)

);

create table diet(

d\_id number,

food varchar(15),

primary key(d\_id)

);

create table goes\_to(

p\_id number,

Fname varchar(15),

Lname varchar(15),

foreign key (p\_id,Fname,Lname) references Visitor(p\_id,Fname,Lname),

primary key (p\_id,Fname,Lname));

create table buys(

p\_id number,

Fname varchar(15),

Lname varchar(15),

t\_id number,

constraint a1 foreign key(p\_id,Fname,Lname) references visitor(p\_id,Fname,Lname),

constraint b2 foreign key(T\_id) references ticket(T\_id),

primary key (p\_id,Fname,Lname,T\_id)

);

create table containing(

P\_id number,

a\_name varchar(15),

foreign key (a\_name,p\_id) references animal\_kind(a\_name,p\_id)

);

create table eats(

d\_id number,

P\_id number,

a\_name varchar(15),

constraint c3 foreign key (p\_id,a\_name) references animal\_kind(p\_id,a\_name),

constraint d4 foreign key(d\_id) references diet(d\_id));

insert into park values(1,'Ranthambore',190,'Uttarakhand');

insert into park values(2,'Bandipur',191,'Karnataka');

insert into park values(3,'Corbett',192,'Uttarakhand');

insert into park values(4,'Keoladeo',193,’Rajasthan');

insert into visitor values(1,'Sid','Kapoor');

insert into visitor values(2,'Raj','Singh');

insert into visitor values(3,'Rohan','Jain');

insert into visitor values(4,'Karan','Thacker');

insert into goes\_to values(1,'Sid','Kapoor');

insert into goes\_to values(2,'Raj','Singh');

insert into goes\_to values(3,'Rohan','Jain');

insert into goes\_to values(4,'Karan','Thacker');

insert into animal\_kind values(1,'Tiger',70);

insert into animal\_kind values(2,'Elephant',80);

insert into animal\_kind values(3,'Deer',100);

insert into animal\_kind values(4,'Cheetah',70);

insert into containing values(1,'Tiger');

insert into containing values(2,'Elephant');

insert into containing values(3,'Deer');

insert into containing values(4,'Cheetah');

insert into ticket values(11110201,700,'11oct20',2020);

insert into ticket values(11110192,800,'11oct19',2019);

insert into ticket values(1139203,900,'13sep20',2020);

insert into ticket values(11211204,600,'12nov20',2020);

select \* from ticket;

insert into buys values(1,'Sid','Kapoor',11110201);

insert into buys values(2,'Raj','Singh',11110192);

insert into buys values(3,'Rohan','Jain',1139203);

insert into buys values(4,'Karan','Thacker',11211204);

insert into diet values(1,'meat');

insert into diet values(2,'banana');

insert into diet values(3,'grass');

insert into diet values(4,'rabit');

insert into eats values(1,1,'Tiger');

insert into eats values(2,2,'Elephant');

insert into eats values(3,3,'Deer');

insert into eats values(4,4,'Cheetah');

**trigger :**

create or replace trigger Animal\_count\_change

AFTER update

on animal\_kind

for each row

declare

count\_diff number;

begin

count\_diff:=:new.a\_count-:old.a\_count;

DBMS\_OUTPUT.PUT\_LINE('Previous animal count: ' || :old.a\_count);

DBMS\_OUTPUT.PUT\_LINE('Current animal count: ' || :new.a\_count);

DBMS\_OUTPUT.PUT\_LINE('count difference: ' || count\_diff);

end;

update animal\_kind set a\_count=60 where a\_name='Tiger';

**function:**

create or replace function total\_visitors

return number is

total number:=0;

begin

select count(\*) into total from Visitor;

return total;

end;

declare

c number;

begin

c:=total\_visitors();

dbms\_output.put\_line('total visitors:'||c);

end;

**procedure**

create or replace procedure location(a varchar)

is

d varchar(15);

begin

select location into d from park where name=a;

dbms\_output.put\_line('location:'||d);

end;

/

EXEC location('Ranthambore');

**Useful joins:**(to print visitor alongwith park)

select \* from park natural join visitor;

**view:**

create view myview as select p\_id,name from park;