ASSIGNMENT-4

CREATION OF TABLES:

SAILORS TABLE:-

create table SAILORS\_40(S\_id Number(5) Primary Key,

S\_name Varchar2(20),

Rating Number(3),

Age Number(3));

BOATS TABLE:-

create table BOATS(B\_id Number(5) Primary Key,

B\_name Varchar2(20),

Color Varchar2(10));

RESERVES TABLE:-

create table RESERVES(S\_id Number(5),

B\_id Number(5) references BOATS(B\_id),

Day Varchar2(10),

constraint c8 Primary Key(S\_id,B\_id),

constraint c6 Foreign Key (S\_id) references SAILORS(S\_id) on delete cascade);

TEACHER TABLE:-

create table TEACHER(T\_id Number(2) Primary Key,

Name Varchar2(30),

Dept Varchar2(20));

SUBJECT TABLE:-

create table SUBJECT(Subno Number(3) Primary Key,

Subtitle Varchar2(40));

TAUGHTBY TABLE:-

create table TAUGHTBY(T\_id Number(2) references TEACHER(T\_id),

Subno Number(3) references SUBJECT(Subno),

Constraint c9 Primary Key(T\_id,Subno));

STUDENT TABLE:-

create table STUDENT(Rollno Number(2) Primary Key,

Sname Varchar2(40),

City Varchar2(25));

INSERTION OF VALUES:

SAILORS TABLE:-

insert into SAILORS\_40 values(10,'Tarun',10,25);

insert into SAILORS\_40 values(20,'Anex',9,27);

insert into SAILORS\_40 values(30,'Apple',7,65);

BOATS TABLE:-

insert into BOATS values(101,'Vina','Red');

insert into BOATS values(102,'Pix','Green');

insert into BOATS values(103,'Xer','Blue');

RESERVES TABLE:-

insert into RESERVES values(10,101,'Monday');

insert into RESERVES values(20,103,'Tuesday');

insert into RESERVES values(30,102,'Wednesday');

insert into RESERVES values(20,102,'Monday');

TEACHER TABLE:-

insert into TEACHER values(001,'DC','CSE');

insert into TEACHER values(002,'SoM','Physics');

insert into TEACHER values(003,'AT','Physics');

SUBJECT TABLE:-

insert into SUBJECT values(101,'DBMS');

insert into SUBJECT values(102,'Thermodynamics');

TAUGHTBY TABLE:-

insert into TAUGHTBY values(001,101);

insert into TAUGHTBY values(002,102);

STUDENT TABLE:-

insert into STUDENT values(21,'Vish','Kolkata');

insert into STUDENT values(23,'Siso','Kolkata');

insert into STUDENT values(30,'Pihu','Spain ');

insert into STUDENT values(32,'Anki','Kolkata');

QUERIES:

select color from BOATS,SAILORS,RESERVES where S\_name like 'Tarun' and SAILORS.S\_id=RESERVES.S\_id and BOATS.B\_id=RESERVES.B\_id;

select S\_id,S\_name from SAILORS where 'Monday' IN(select day from RESERVES where SAILORS.S\_id=RESERVES.S\_id);

select B\_id,B\_name from BOATS where Color IN('Red','Green');

delete from SAILORS where AGE>60;

select Name from Teacher,Subject,Taughtby

where Teacher.Dept like 'Physics' and

Subject.Subtitle like 'Thermodynamics' and

Teacher.T\_id=Taughtby.T\_id and

Subject.Subno=Taughtby.Subno;

update Subject set Subtitle='RDBMS' where Subtitle='DBMS';

select \* from Student where City like 'Kolkata' and Rollno>19 and Rollno<26;

select \* from Student where City like 'Kolkata' order by Rollno desc;