

## SET OPERATION

### QUERY:

create database Vidya;

use Vidya;

create table t1(rollno int, firstname varchar(20),lastname varchar(20),birthdate date);

create table t2(rollno int,present int,absent int,percentage varchar(10));

insert into values(1001,'Mike','Richard',19960201),(1002,'Robert','Williams',19950503),  
(1003,'Peter','Collin',19940104),(1004,'Alexa','Stuart',19950611),(1005,'Robert','Peterson',19970111);

insert into values(1001,200,20,'90%'), (1002,160,60,'72%'), (1003,150,70,'68%'),  
(1004,210,10,'95%');

Select \* from t1;

rollno	firstname	lastname	birthdate
1001	Mike	Richard	1996-02-01
1002	Robert	Williams	1995-05-03
1003	Peter	Collin	1994-01-04
1004	Alexa	Stuart	1995-06-11
1005	Robert	Peterson	1997-01-12

Select \* from t2;

rollno	present	absent	percentage
1001	200	20	90%
1002	160	60	72%
1003	150	70	68%
1004	210	10	95%

### UNION

Select rollno from t1 union select rollno from t2;

rollno
1001
1002
1003
1004
1005

### UNIONALL

Select rollno from t1 unionall select rollno from t2;

rollno
1001
1002
1003
1004
1005
1001
1002
1003
1004

### INNERJOIN

Select t1.rollno,firstname,percentage from t1 inner join t2 on t1.rollno = t2.rollno;

rollno	firstname	percentage
1001	Mike	90%
1002	Robert	72%
1003	Peter	68%
1004	Alexa	95%

### LEFTJOIN

Select t1.rollno,firstname,percentage from t1 left join t2 on t1.rollno = t2.rollno;

rollno	firstname	percentage
1001	Mike	90%
1002	Robert	72%
1003	Peter	68%
1004	Alexa	95%
1005	Robert	NULL

### RIGHTJOIN

Select t1.rollno,firstname,percentage from t1 right join t2 on t1.rollno = t2.rollno;

<u>rollno</u>	<u>firstname</u>	<u>percentage</u>
<u>1001</u>	<u>Mike</u>	<u>90%</u>
<u>1002</u>	<u>Robert</u>	<u>72%</u>
<u>1003</u>	<u>Peter</u>	<u>68%</u>
<u>1004</u>	<u>Alexa</u>	<u>95%</u>

### CROSSJOIN

Select t1.rollno,firstname,percentage from t1 cross join t2;

rollno	firstname	percentage	present	absent
1001	Mike	Richard	200	20
1001	Mike	Richard	160	60
1001	Mike	Richard	150	70
1001	Mike	Richard	210	10
1002	Robert	Williams	200	20
1002	Robert	Williams	160	60
1002	Robert	Williams	150	70
1002	Robert	Williams	210	10
1003	Peter	Collins	200	20
1003	Peter	Collins	160	60
1003	Peter	Collins	150	70
1003	Peter	Collins	210	10
1004	Alexa	Stuart	200	20
1004	Alexa	Stuart	160	60
1004	Alexa	Stuart	150	70
1004	Alexa	Stuart	210	10
1005	Robert	Peterson	200	20
1005	Robert	Peterson	160	60
1005	Robert	Peterson	150	70
1005	Robert	Peterson	210	10

### INTERSECTION

Select distinct(rollno) from t1 inner join t2 using (rollno);

rollno
1001
1002
1003
1004