DBMS LABSHEET SEVEN

Look at the Postgres Manual and do the following:
1) Find the details of all the employees along with the contact informaion,if any.

Emp_official(emp_id, ename, desig, dob)

create table emp_official
(
        emp_id int primary key,
        ename Varchar(20),
        desig Varchar(20),
        dob Date
);

| | emp_id integer | ename character varying(20) | desig character varying(20) | dob date |
|---|---|---|---|---|
| 1 | 1 | Remya Rajesh | lecturer | 1994-05-05 |
| 2 | 2 | Suhas Kurup | assistant professor | 1990-12-31 |
| 3 | 3 | Vipin Pavithran | professor | 1988-08-08 |
| 4 | 4 | Prabha Seetharaman | principal | 1986-01-02 |

Emp_contact (emp_id, contact_phno)

create table emp_contact
(
        emp_id int primary key references emp_official(emp_id),
        contact_phno int
);

| | emp_id integer | contact_phno integer |
|---|---|---|
| 1 | 1 | 2381062 |
| 2 | 2 | 9846131 |
| 3 | 3 | 2138672 |

1. Left Outer Join
SELECT *
FROM emp_official LEFT OUTER JOIN emp_contact ON (emp_official.emp_id = emp_contact.emp_id);

| | emp_id<br>integer | ename<br>character varying(20) | desig<br>character varying(20) | dob<br>date | emp_id<br>integer | contact_phno<br>integer |
|---|---|---|---|---|---|---|
| 1 | 1 | Remya Rajesh | lecturer | 1994-05-05 | 1 | 2381062 |
| 2 | 2 | Suhas Kurup | assistant professor | 1990-12-31 | 2 | 9846131 |
| 3 | 3 | Vipin Pavithran | professor | 1988-08-08 | 3 | 2138672 |
| 4 | 4 | Prabha Seetharaman | principal | 1986-01-02 | | |

2. Right Outer Join
SELECT *
FROM emp_official RIGHT OUTER JOIN emp_contact ON (emp_official.emp_id =
emp_contact.emp_id);

| | emp_id<br>integer | ename<br>character varying(20) | desig<br>character varying(20) | dob<br>date | emp_id<br>integer | contact_phno<br>integer |
|---|---|---|---|---|---|---|
| 1 | 1 | Remya Rajesh | lecturer | 1994-05-05 | 1 | 2381062 |
| 2 | 2 | Suhas Kurup | assistant professor | 1990-12-31 | 2 | 9846131 |
| 3 | 3 | Vipin Pavithran | professor | 1988-08-08 | 3 | 2138672 |

2) Find the employees whose birthday falls in the month of January. (use extract or to_char) .

select emp_id,ename from emp_official where EXTRACT(month from dob) = '01';

select emp_id,ename,dob from emp_official where to_char(dob,'mm') = '01';

| | emp_id<br>integer | ename<br>character varying(20) |
|---|---|---|
| 1 | 4 | Prabha Seetharaman |

3) Create an index id1 on a single column of one of your tables .
solution:-

create index id1 on emp_official (ename);

4) Create an index on multiple columns of a table.
solution:-

create index id2 on emp_official (emp_id,dob);

SEQUENCES

CREATE SEQUENCE phonebook_id_seq;

CREATE TABLE phonebook
(
        id int primary key DEFAULT NEXTVAL('phonebook_id_seq'),
        phone VARCHAR(32),
        firstname VARCHAR(32),
        lastname VARCHAR(32)
);

INSERT INTO phonebook(phone, firstname, lastname) VALUES('+1 123 456 7890', 'Simi', 'Sunil');
Then inserted a row manually.

select * from phonebook;

| | id<br>integer | phone<br>character varying(32) | firstname<br>character varying(32) | lastname<br>character varying(32) |
|---|---|---|---|---|
| 1 | 1 | +1 123 456 7890 | Simi | Sunil |
| 2 | 2 | +1 221 334 5678 | Surya | Seetharaman |

select currval('phonebook_id_seq');

| | currval<br>bigint |
|---|---|
| 1 | 1 |

select nextval('phonebook_id_seq ');

| | nextval<br>bigint |
|---|---|
| 1 | 3 |