CREATING A DATABASE

```
postgres=# CREATE DATABASE schoolManagement;
CREATE DATABASE
```

CONNECTING

```
postgres=# \c schoolmanagement;
You are now connected to database "schoolmanagement" as user "postgres".
```

CREATE TABLES

```
schoolmanagement=# CREATE TABLE class(
schoolmanagement(# class_id INT PRIMARY KEY);
CREATE TABLE
```

```
schoolmanagement=# CREATE TABLE  course (course_id INT PRIMARY KEY
schoolmanagement(# course_name VARCHAR(15),
schoolmanagement(# staff_id INT);
CREATE TABLE
```

```
schoolmanagement=# CREATE TABLE students(student_id INT PRIMARY KEY,
schoolmanagement(# Name VARCHAR(50),
schoolmanagement(# Address VARCHAR(50),
schoolmanagement(# DOB date,
schoolmanagement(# class_id INT,
schoolmanagement(# Sex VARCHAR(5));
CREATE TABLE
```

```
schoolmanagement=# CREATE TABLE teachers(
schoolmanagement(# class_id INT PRIMARY KEY,
schoolmanagement(# staff_id INT,
schoolmanagement(# course_id INT,
schoolmanagement(# t_name VARCHAR(50));
CREATE TABLE
```

INSERTING DATA

```
schoolmanagement=# INSERT INTO teachers (staff_id, t_name, class_id, course_id)
schoolmanagement-# VALUES
schoolmanagement-#     (1001, 'John Smith', 1, 101),
schoolmanagement-#     (1002, 'Emily Johnson', 2, 101),
schoolmanagement-#     (1003, 'Michael Williams', 3, 201),
schoolmanagement-#     (1004, 'Jessica Brown', 1, 301),
schoolmanagement-#     (1005, 'David Jones', 4, 201),
schoolmanagement-#     (1006, 'Sarah Martinez', 5, 101),
schoolmanagement-#     (1007, 'James Taylor', 1, 201),
schoolmanagement-#     (1008, 'Jennifer Garcia', 2, 101),
schoolmanagement-#     (1009, 'Robert Rodriguez', 3, 101),
schoolmanagement-#     (1010, 'Emma Martinez', 3, 201),
schoolmanagement-#     (1011, 'William Davis', 1, 301),
schoolmanagement-#     (1012, 'Olivia Wilson', 5, 501),
schoolmanagement-#     (1013, 'Daniel Anderson', 4, 301),
schoolmanagement-#     (1014, 'Sophia Thomas', 3, 201),
schoolmanagement-#     (1015, 'Matthew Moore', 1, 101);
INSERT 0 15
```

```
schoolmanagement=# INSERT INTO class VALUES (1),(2),(3),(4),(5);
INSERT 0 5
```

```
schoolmanagement=# INSERT INTO students (student_id, Name, Address, DOB, class_id, Sex) VALUES
schoolmanagement-# (7, 'Sneha Nair', 'Mundur', '2008-01-08', 1, 'F'),
schoolmanagement-# (1, 'Arun Kumar', 'Palakkad', '2008-01-01', 1, 'M'),
schoolmanagement-# (2, 'Anjali Nair', 'Palakkad', '2008-01-02', 1, 'F'),
schoolmanagement-# (3, 'Suresh Menon', 'Alanallur', '2008-01-03', 1, 'M'),
schoolmanagement-# (4, 'Deepa Pillai', 'Olavakode', '2008-01-04', 1, 'F'),
```

```
schoolmanagement=# INSERT INTO students (student_id, Name, Address, DOB, class_id, Sex) VALUES
schoolmanagement-# (7, 'Sneha Nair', 'Mundur', '2008-01-08', 1, 'F'),
schoolmanagement-# (1, 'Arun Kumar', 'Palakkad', '2008-01-01', 1, 'M'),
schoolmanagement-# (2, 'Anjali Nair', 'Palakkad', '2008-01-02', 1, 'F'),
schoolmanagement-# (3, 'Suresh Menon', 'Alanallur', '2008-01-03', 1, 'M'),
schoolmanagement-# (4, 'Deepa Pillai', 'Olavakode', '2008-01-04', 1, 'F'),
schoolmanagement-# (5, 'Rajesh Krishnan', 'Chungam', '2008-01-05', 1, 'M'),
schoolmanagement-# (6, 'Prakash Menon', 'Avidanellur', '2008-01-07', 1, 'M'),
schoolmanagement-# (8, 'Vishnu Pillai', 'Palakkad', '2007-01-09', 2, 'M'),
schoolmanagement-# (9, 'Ananya Nambiar', 'Palakkad', '2007-01-10', 2, 'F'),
schoolmanagement-# (10, 'Aravind Soman', 'Mundur', '2007-01-11', 2, 'M'),
schoolmanagement-# (11, 'Divya Nair', 'Mannarkkad', '2007-01-12', 2, 'F'),
schoolmanagement-# (12, 'Girish Kumar', 'Kongappadam', '2007-01-13', 2, 'M'),
schoolmanagement-# (13, 'Shalini Nair', 'Velikad', '2007-01-14', 2, 'F'),
schoolmanagement-# (14, 'Vineeth Menon', 'Palakkad', '2008-01-15', 3, 'M'),
schoolmanagement-# (15, 'Anjana Pillai', 'Avidanellur', '2008-01-16', 3, 'F'),
schoolmanagement-# (16, 'Arun Rajan', 'Palakkad', '2008-01-17', 1, 'M'),
schoolmanagement-# (17, 'Manju Nambiar', 'Olavakode', '2008-01-18', 2, 'F'),
schoolmanagement-# (18, 'Siddharth Soman', 'Velikad', '2008-01-19', 4, 'M'),
schoolmanagement-# (19, 'Asha Nair', 'Velikad', '2008-01-20', 4, 'F'),
schoolmanagement-# (20, 'Pradeep Kumar', 'Olavakode', '2008-01-21', 4, 'M'),
schoolmanagement-# (21, 'Deepthi Pillai', 'Palakkad', '2007-01-22', 3, 'F'),
schoolmanagement-# (22, 'Vijay Menon', 'Olavakode', '2007-01-23', 3, 'M'),
schoolmanagement-# (23, 'Rohini Nambiar', 'Mundur', '2007-01-24', 5, 'F'),
schoolmanagement-# (24, 'Rajeev Soman', 'Avidanellur', '2007-01-25', 5, 'M'),
schoolmanagement-# (25, 'Anita Nair', 'Palakkad', '2007-01-26', 1, 'F'),
schoolmanagement-# (26, 'Vinod Pillai', 'Palakkad', '2007-01-27', 2, 'M'),
schoolmanagement-# (27, 'Sangeetha Menon', 'Velikad', '2006-01-28', 4, 'F'),
schoolmanagement-# (28, 'Arun Kumar', 'Avidanellur', '2006-01-29', 4, 'M'),
schoolmanagement-# (29, 'Anjali Nair', 'Mundur', '2005-01-30', 3, 'F'),
schoolmanagement-# (30, 'Suresh Menon', 'Mannarkkad', '2006-01-31', 1, 'M'),
schoolmanagement-# (31, 'Deepa Pillai', 'Mundur', '2005-02-01', 5, 'F'),
schoolmanagement-# (32, 'Rajesh Krishnan', 'Palakkad', '2006-02-02', 1, 'M'),
schoolmanagement-# (33, 'Saranya Rajan', 'Avidanellur', '2006-02-03', 3, 'F'),
schoolmanagement-# (34, 'Prakash Menon', 'Palakkad', '2006-02-04', 1, 'M'),
schoolmanagement-# (35, 'Sneha Nair', 'Mannarkkad', '2005-02-05', 2, 'F'),
schoolmanagement-# (36, 'Vishnu Pillai', 'Palakkad', '2006-02-06', 5, 'M'),
schoolmanagement-# (37, 'Ananya Nambiar', 'Avidanellur', '2006-02-07', 3, 'F'),
schoolmanagement-# (38, 'Aravind Soman', 'Mannarkkad', '2009-02-08', 3, 'M'),
schoolmanagement-# (39, 'Divya Nair', 'Velikad', '2009-02-09', 1, 'F'),
schoolmanagement-# (40, 'Girish Kumar', 'Velikad', '2009-02-10', 4, 'M'),
schoolmanagement-# (41, 'Akhil Thomas', 'Kongad', '2009-02-11', 4, 'M'),
schoolmanagement-# (42, 'Ayesha Khan', 'Palakkad', '2009-02-12', 1, 'F'),
schoolmanagement-# (43, 'Joseph Mathew', 'Velippadam', '2009-02-13', 2, 'M'),
schoolmanagement-# (44, 'Fatima Begum', 'Mundur', '2009-02-14', 3, 'F'),
schoolmanagement-# (45, 'Anoop George', 'Palakkad', '2009-02-15', 3, 'M'),
schoolmanagement-# (46, 'Zoya Patel', 'Aruvikulam', '2009-02-16', 3, 'F'),
schoolmanagement-# (47, 'Rajesh Kumar', 'Olavakode', '2009-02-17', 5, 'M'),
schoolmanagement-# (48, 'Priya Devi', 'Olavakode', '2008-02-18', 5, 'F'),
schoolmanagement-# (49, 'George Varghese', 'Aruvikulam', '2008-02-19', 3, 'M'),
schoolmanagement-# (50, 'Rukhsar Ali', 'Palakkad', '2008-02-20', 2, 'F'),
schoolmanagement-# (51, 'Saji John', 'Velippadam', '2008-02-21', 3, 'M'),
schoolmanagement-# (52, 'Roshan Ahmed', 'Velippadam', '2008-02-22', 5, 'M'),
schoolmanagement-# (53, 'Priya Thomas', 'Kongad', '2008-02-23', 1, 'F'),
schoolmanagement-# (54, 'Sana Khan', 'Palakkad', '2008-02-24', 1, 'F'),
schoolmanagement-# (55, 'Ajay Mathew', 'Kongad', '2007-02-25', 2, 'M'),
schoolmanagement-# (56, 'Aisha Bhat', 'Aruvikulam', '2007-02-26', 4, 'F'),
schoolmanagement-# (57, 'Paul Varghese', 'Velippadam', '2006-02-27', 4, 'M'),
schoolmanagement-# (58, 'Fathima Rahman', 'Olavakode', '2006-02-28', 2, 'F'),
schoolmanagement-# (59, 'Vijay Joseph', 'Mundur', '2006-03-01', 3, 'M'),
schoolmanagement-# (60, 'Nadia Ali', 'Olavakode', '2009-03-02', 1, 'F'),
schoolmanagement-# (61, 'Vinod Mathew', 'Aruvikulam', '2009-03-03', 2, 'M'),
schoolmanagement-# (62, 'Nisha Patel', 'Mundur', '2009-03-04', 5, 'F'),
schoolmanagement-# (63, 'Samuel Thomas', 'Kongad', '2009-03-05', 3, 'M'),
schoolmanagement-# (64, 'Zara Khan', 'Olavakode', '2009-03-06', 4, 'F'),
schoolmanagement-# (65, 'Benny Mathew', 'Aruvikulam', '2009-03-07', 4, 'M'),
schoolmanagement-# (66, 'Sofia Ahmed', 'Velippadam', '2009-03-08', 1, 'F'),
schoolmanagement-# (67, 'Philip John', 'Palakkad', '2009-03-09', 3, 'M'),
schoolmanagement-# (68, 'Nadia Khan', 'Mundur', '2009-03-10', 1, 'F'),
schoolmanagement-# (69, 'Thomas Mathew', 'Kongad', '2008-03-11', 5, 'M'),
schoolmanagement-# (70, 'Aisha Bano', 'Kongad', '2008-03-12', 3, 'F'),
schoolmanagement-# (71, 'John Varghese', 'Aruvikulam', '2007-03-13', 3, 'M'),
schoolmanagement-# (72, 'Shabana Rahman', 'Palakkad', '2008-03-14', 4, 'F'),
```

```
schoolmanagement-# (80, 'Sana Bano', 'Velippadam', '2006-03-22', 3, 'F'),
schoolmanagement-# (81, 'Sneha Menon', 'Palakkad', '2006-01-01', 1, 'F'),
schoolmanagement-# (82, 'Ahmed Khan', 'Olavakode', '2006-02-02', 5, 'M'),
schoolmanagement-# (83, 'Anusha Nair', 'Mundur', '2007-03-03', 1, 'F'),
schoolmanagement-# (84, 'Joseph Chacko', 'Alathur', '2007-04-04', 2, 'M'),
schoolmanagement-# (85, 'Ayesha Patel', 'Kongad', '2008-05-05', 2, 'F'),
schoolmanagement-# (86, 'John Mathew', 'Olavakode', '2008-06-06', 3, 'M'),
schoolmanagement-# (87, 'Priya Singh', 'Palakkad', '2009-07-07', 3, 'F'),
schoolmanagement-# (88, 'Sachin Nair', 'Kongad', '2009-08-08', 4, 'M'),
schoolmanagement-# (89, 'Riya Gupta', 'Olavakode', '2010-09-09', 5, 'F'),
schoolmanagement-# (90, 'Vijay Kumar', 'Palakkad', '2010-10-10', 1, 'M'),
schoolmanagement-# (91, 'Aruna Menon', 'Kongad', '2006-11-11', 3, 'F'),
schoolmanagement-# (92, 'Imran Ali', 'Palakkad', '2006-12-12', 2, 'M'),
schoolmanagement-# (93, 'Kavita Nair', 'Mundur', '2007-01-13', 5, 'F'),
schoolmanagement-# (94, 'Ankit Patel', 'Mundur', '2007-02-14', 2, 'M'),
schoolmanagement-# (95, 'Sonia Thomas', 'Kongad', '2008-03-15', 1, 'F'),
schoolmanagement-# (96, 'Rahul Sharma', 'Olavakode', '2008-04-16', 5, 'M'),
schoolmanagement-# (97, 'Divya Krishnan', 'Palakkad', '2009-05-17', 3, 'F'),
schoolmanagement-# (98, 'Vishal Menon', 'Olavakode', '2009-06-18', 3, 'M'),
schoolmanagement-# (99, 'Pooja Shah', 'Mundur', '2010-07-19', 2, 'F'),
schoolmanagement-# (100, 'Amit Kumar', 'Kongad', '2010-08-20', 1, 'M');
INSERT 0 100
```

SELECT *

```
schoolmanagement=# select * from class;
 class_id
----------
        1
        2
        3
        4
        5
(5 rows)
```

```
schoolmanagement=# select * from teachers;
 staff_id |       t_name      | class_id | course_id
----------+-------------------+----------+-----------
     1001 | John Smith        |        1 |       101
     1002 | Emily Johnson     |        2 |       101
     1003 | Michael Williams  |        3 |       201
     1004 | Jessica Brown     |        1 |       301
     1005 | David Jones       |        4 |       201
     1006 | Sarah Martinez    |        5 |       101
     1007 | James Taylor      |        1 |       201
     1008 | Jennifer Garcia   |        2 |       101
     1009 | Robert Rodriguez  |        3 |       101
     1010 | Emma Martinez     |        3 |       201
     1011 | William Davis     |        1 |       301
     1012 | Olivia Wilson     |        5 |       501
     1013 | Daniel Anderson   |        4 |       301
     1014 | Sophia Thomas     |        3 |       201
     1015 | Matthew Moore     |        1 |       101
(15 rows)
```

DELETE

```
schoolmanagement=# DELETE FROM class where class_id = 2;
DELETE 1
schoolmanagement=# select * from class;
 class_id
-----------
         1
         3
         4
         5
(4 rows)
```

SELECT WITH CONDITION

```
schoolmanagement=# select * from students where Sex='F';
 student_id |      name       |   address    |    dob     | class_id | sex
------------+-----------------+--------------+------------+----------+-----
          7 | Sneha Nair      | Mundur       | 2008-01-08 |        1 | F
          2 | Anjali Nair     | Palakkad     | 2008-01-02 |        1 | F
          4 | Deepa Pillai    | Olavakode    | 2008-01-04 |        1 | F
          9 | Ananya Nambiar  | Palakkad     | 2007-01-10 |        2 | F
         11 | Divya Nair      | Mannarkkad   | 2007-01-12 |        2 | F
         13 | Shalini Nair    | Velikad      | 2007-01-14 |        2 | F
         15 | Anjana Pillai   | Avidanellur  | 2008-01-16 |        3 | F
         17 | Manju Nambiar   | Olavakode    | 2008-01-18 |        2 | F
         19 | Asha Nair       | Velikad      | 2008-01-20 |        4 | F
         21 | Deepthi Pillai  | Palakkad     | 2007-01-22 |        3 | F
         23 | Rohini Nambiar  | Mundur       | 2007-01-24 |        5 | F
         25 | Anita Nair      | Palakkad     | 2007-01-26 |        1 | F
         27 | Sangeetha Menon | Velikad      | 2006-01-28 |        4 | F
         29 | Anjali Nair     | Mundur       | 2005-01-30 |        3 | F
         31 | Deepa Pillai    | Mundur       | 2005-02-01 |        5 | F
         33 | Saranya Rajan   | Avidanellur  | 2006-02-03 |        3 | F
         35 | Sneha Nair      | Mannarkkad   | 2005-02-05 |        2 | F
         37 | Ananya Nambiar  | Avidanellur  | 2006-02-07 |        3 | F
         39 | Divya Nair      | Velikad      | 2009-02-09 |        1 | F
         42 | Ayesha Khan     | Palakkad     | 2009-02-12 |        1 | F
         44 | Fatima Begum    | Mundur       | 2009-02-14 |        3 | F
         46 | Zoya Patel      | Aruvikulam   | 2009-02-16 |        3 | F
         48 | Priya Devi      | Olavakode    | 2008-02-18 |        5 | F
         50 | Rukhsar Ali     | Palakkad     | 2008-02-20 |        2 | F
         53 | Priya Thomas    | Kongad       | 2008-02-23 |        1 | F
         54 | Sana Khan       | Palakkad     | 2008-02-24 |        1 | F
         56 | Aisha Bhat      | Aruvikulam   | 2007-02-26 |        4 | F
         58 | Fathima Rahman  | Olavakode    | 2006-02-28 |        2 | F
         60 | Nadia Ali       | Olavakode    | 2009-03-02 |        1 | F
         62 | Nisha Patel     | Mundur       | 2009-03-04 |        5 | F
         64 | Zara Khan       | Olavakode    | 2009-03-06 |        4 | F
         66 | Sofia Ahmed     | Velippadam   | 2009-03-08 |        1 | F
         68 | Nadia Khan      | Mundur       | 2009-03-10 |        1 | F
         70 | Aisha Bano      | Kongad       | 2008-03-12 |        3 | F
         72 | Shabana Rahman  | Palakkad     | 2008-03-14 |        4 | F
         74 | Mary Joseph     | Olavakode    | 2007-03-16 |        4 | F
         76 | Rachel Thomas   | Palakkad     | 2006-03-18 |        2 | F
         78 | Shamina Khan    | Palakkad     | 2006-03-20 |        4 | F
         80 | Sana Bano       | Velippadam   | 2006-03-22 |        3 | F
         81 | Sneha Menon     | Palakkad     | 2006-01-01 |        1 | F
         83 | Anusha Nair     | Mundur       | 2007-03-03 |        1 | F
         85 | Ayesha Patel    | Kongad       | 2008-05-05 |        2 | F
         87 | Priya Singh     | Palakkad     | 2009-07-07 |        3 | F
         89 | Riya Gupta      | Olavakode    | 2010-09-09 |        5 | F
         91 | Aruna Menon     | Kongad       | 2006-11-11 |        3 | F
         93 | Kavita Nair     | Mundur       | 2007-01-13 |        5 | F
         95 | Sonia Thomas    | Kongad       | 2008-03-15 |        1 | F
         97 | Divya Krishnan  | Palakkad     | 2009-05-17 |        3 | F
         99 | Pooja Shah      | Mundur       | 2010-07-19 |        2 | F
(49 rows)
```

UPDATE

```
schoolmanagement=# UPDATE course SET course_name='Arts&Crafts' WHERE course_id = 105;
UPDATE 1
schoolmanagement=# select * from course;
 course_id | course_name | staff_id
-----------+-------------+----------
       101 | Mathematics |     1001
       201 | Physics     |     1002
       301 | Literature  |     1003
       401 | Biology     |     1004
       501 | Chemistry   |     1005
       601 | History     |     1006
       701 | ComputerS   |     1007
       801 | Geography   |     1008
       901 | Economics   |     1009
       105 | Arts&Crafts |     1010
(10 rows)
```