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How I Became A Software Engineer Without Computer...

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```
SQL Shell (psql)
student=# VALUES ('balaji','raj','male',date'1995-10-15','balaji@gmail.com');
INSERT 0 1
student=# INSERT INTO details(first_name,second_name,gender,date_of_birth,email)
student=# VALUES ('maha','vicky','female',date'1998-11-26','maha@gmail.com');
INSERT 0 1
student=# \d details
          Table "public.details"
          | Column          | Type          | Collation | Nullable | Default |
          |-----|-----|-----|-----|-----|
          | id               | bigint       |           | not null |          |
          | first_name       | character varying(50) |           | not null |          |
          | second_name      | character varying(50) |           | not null |          |
          | gender           | character varying(10) |           | not null |          |
          | date_of_birth    | date         |           | not null |          |
          | email            | character varying(100) |           |          |          |
Indexes:
    "details_pkey" PRIMARY KEY, btree (id)

student=# SELECT * FROM details;
 id | first_name | second_name | gender | date_of_birth | email
----|-----|-----|-----|-----|-----|
  1 | ayyappan   | hsr         | male   | 1997-11-27    | ayyappan@gmail.com
  2 | suresh     | raj         | male   | 1997-11-15    | suresh@gmail.com
  3 | balaji     | raj         | male   | 1995-10-15    | balaji@gmail.com
  4 | maha       | vicky       | female | 1998-11-26    | maha@gmail.com
(4 rows)

student=#
```

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Show all

```
student=# SELECT * FROM details;
```

id	first_name	second_name	gender	date_of_birth	email
1	ayyappan	hsr	male	1997-11-27	ayyappan@gmail.com
2	suresh	raj	male	1997-11-15	suresh@gmail.com
3	balaji	raj	male	1995-10-15	balaji@gmail.com
4	maha	vicky	female	1998-11-26	maha@gmail.com
5	hema	naga	female	2005-08-26	hema@yahoo.com
6	saha	vicky	female	2002-06-28	laddo@yahoo.com
7	appu	praveen	male	2006-12-13	appu@hotmail.com

```
<7 rows>
```

```
student=# SELECT FROM first_name;
```

```
ERROR: relation "first_name" does not exist
```

```
LINE 1: SELECT FROM first_name;
```

```
student=# SELECT first_name FROM details;
```

```
first_name
-----
ayyappan
suresh
balaji
maha
hema
saha
appu
<7 rows>
```

```
student=# SELECT * FROM details ORDER BY date_of_birth ASC;
```

id	first_name	second_name	gender	date_of_birth	email
3	balaji	raj	male	1995-10-15	balaji@gmail.com
2	suresh	raj	male	1997-11-15	suresh@gmail.com
1	ayyappan	hsr	male	1997-11-27	ayyappan@gmail.com
4	maha	vicky	female	1998-11-26	maha@gmail.com
6	saha	vicky	female	2002-06-28	laddo@yahoo.com
5	hema	naga	female	2005-08-26	hema@yahoo.com
7	appu	praveen	male	2006-12-13	appu@hotmail.com

```
<7 rows>
```

```
student=# SELECT DISTINCT raj FROM details;
```

```
ERROR: column "raj" does not exist
```

```
LINE 1: SELECT DISTINCT raj FROM details;
```

```
student=# SELECT DISTINCT second_name FROM details;
```

```
second_name
-----
hsr
praveen
raj
naga
vicky
<5 rows>
```

```
student=# SELECT * FROM details WHERE gender='male';
```

id	first_name	second_name	gender	date_of_birth	email
1	ayyappan	hsr	male	1997-11-27	ayyappan@gmail.com
2	suresh	raj	male	1997-11-15	suresh@gmail.com
3	balaji	raj	male	1995-10-15	balaji@gmail.com
7	appu	praveen	male	2006-12-13	appu@hotmail.com

(4 rows)

```
student=# SELECT * FROM details WHERE gender='male' AND date_of_birth = '1997';
ERROR:  invalid input syntax for type date: "1997"
LINE 1: ... FROM details WHERE gender='male' AND date_of_birth = '1997';
                        ^
```

```
student=# SELECT * FROM details WHERE gender='male' AND date_of_birth = '1997-11-27';
```

id	first_name	second_name	gender	date_of_birth	email
1	ayyappan	hsr	male	1997-11-27	ayyappan@gmail.com

(1 row)

```
student=# SELECT * FROM details LIMIT 3;
```

id	first_name	second_name	gender	date_of_birth	email
1	ayyappan	hsr	male	1997-11-27	ayyappan@gmail.com
2	suresh	raj	male	1997-11-15	suresh@gmail.com
3	balaji	raj	male	1995-10-15	balaji@gmail.com

(3 rows)

```
student=# SELECT * FROM details OFFSET 3 LIMIT 5;
```

id	first_name	second_name	gender	date_of_birth	email
4	maha	vicky	female	1998-11-26	maha@gmail.com
5	hema	naga	female	2005-08-26	hema@yahoo.com
6	saha	vicky	female	2002-06-28	laddo@yahoo.com
7	appu	praveen	male	2006-12-13	appu@hotmail.com

(4 rows)

```
student=# SELECT * FROM details WHERE gender IN ('male');
student=# SELECT * FROM details WHERE gender IN ('male');
```

```
ERROR:  syntax error at or near "SELECT"
LINE 2: ^SELECT * FROM details WHERE gender IN ('male');
```

```
student=# SELECT * FROM details BETWEEN date_of_birth 2000 AND 2006;
```

```
ERROR:  syntax error at or near "date_of_birth"
LINE 1: SELECT * FROM details BETWEEN ^date_of_birth 2000 AND 2006;
```

```
student=# SELECT * FROM details WHERE date_of_birth BETWEEN 2000 AND 2006;
```

```
ERROR:  operator does not exist: date >= integer
LINE 1: SELECT * FROM details WHERE date_of_birth ^BETWEEN 2000 AND 2...
```

HINT: No operator matches the given name and argument types. You might need to add explicit type casts.

```
student=#
```