

۱.

او دارای یک دوربین با برند ریکو بود و تک لنزی:

```
INSERT INTO camera (id, brand, model) VALUES (1, 'ricoh', 'singlelens');
```

در سال ۱۳۴۸ جایزه گرفته :

```
INSERT INTO camera (id, date) VALUES (1, 1348);
```

این عکاس برای تلویزیون ایران کار می کرده است :

```
INSERT INTO branch (id, name, location) VALUES (1, 'tv', 'iran');
```

عکس علی سگباز که در ترکمنستان گرفته شده بود.

```
INSERT INTO picture (id, title, location, camera_id, branch_id) VALUES (1, 'ali sag  
baz', 'torkamanestan', 1, 1);
```

عکاس ایرانی یه نام مریم یزدی:

```
INSERT INTO photographer (id, name, surname, nationality, camera_id) VALUES  
(1, 'maryam', 'zandi', 'irani', 1);
```

وزارت فرهنگ و هنر:

```
INSERT INTO award (id, institute, picture_id, date_id) VALUES (1, 'vezarat farhang  
va honar', 1, 1);
```

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در صورت سوال گفته شده ۲۰ دی ماه ۱۳۲۵ متولد شده در حالی که ما قبلا فقط فیلد سال تولد را داشتیم
، پس ابتدا فیلد سال تولد را پاک میکنیم سپس فیلدی به نام تاریخ تولد اضافه خواهیم کرد:

```
ALTER TABLE photographer DROP year_of_birth;
```

```
ALTER TABLE photographer ADD date_of_birth date;
```

همچنین فیلدهای محل تولد و نام دانشگاه نیز بای به این جدول اضافه کردند:

```
ALTER TABLE photographer ADD COLUMN city_birth varchar(50), ADD COLUMN uni_name varchar(50);
```

مریم زندی در ۲۰ دی ماه ۱۳۲۵ در گرگان متولد شده و دارای لیسانس حقوق و علوم سیاسی از دانشگاه تهران است.

```
UPDATE photographer SET date_of_birth = '1325-10-20', city_birth = 'gorgan', field = 'hoghogh va olom siasi', uni_name = 'daneshgah tehran';
```

میراث فرهنگی است :

```
INSERT INTO branch (id, name) VALUES (2, 'miras farhangi');
```

عضو تلویزیون :

```
INSERT INTO photographer_branch (id, photographer_id, branch_id) VALUES (2,1,1);
```

عضو میراث فرهنگی بوده است:

```
INSERT INTO photographer_branch (id, photographer_id, branch_id) VALUES (2,1,2);
```

اضافه کردن فیلد سال گرفته شدن عکس در جدول عکس:

```
ALTER TABLE picture ADD COLUMN year int;
```

پرتره ایرج افشار در سال ۲۰۱۵:

```
INSERT INTO picture (id, title, subject, camera_id, branch_id, year) VALUES (2, 'eraj afshar', 'portre', 1, 1, 2015);
```

محتویات جداول :

:Award

```
photography=#
photography=#
photography=# SELECT * FROM award;
 id | name | institute | dollar_price | picture_id | date_id
-----+-----+-----+-----+-----+-----
  1 |  | vezarat farhang va honar |  | 1 | 1
(1 row)
```

:Branch

```
photography=#
photography=#
photography=# SELECT * FROM branch;
 id | name | location | established_year | specialized_field
-----+-----+-----+-----+-----
  2 | miras farhangi | iran |  | 
  1 | tv | iran |  | 
(2 rows)
```

:Camera

```
photography=#  
photography=# SELECT * FROM camera;  
id | brand | model | production_year | number_of_shot  
-----  
1 | ricoh | Singlelens | |  
(1 row)
```

:Date

```
photography=# SELECT * FROM date;  
id | date  
-----  
1 | 1348  
(1 row)
```

:Photographer

```
photography=# SELECT * FROM photographer;  
id | name | surname | nationality | photography_style | field | camera_id | city_birth | date_of_birth | uni_name  
-----  
1 | maryam | zandi | irani | | hoghogh va olom siasi | 1 | gorgan | 1325-10-20 | daneshgah tehran  
(1 row)
```

:photographer_branch

```
photography=# SELECT * FROM photographer_branch;  
id | photographer_id | branch_id  
-----  
1 | 1 | 1  
2 | 1 | 2  
(2 rows)
```

:Picture

```
photography=# SELECT * FROM picture;  
id | title | location | subject | file | camera_id | branch_id | year  
-----  
1 | ali sag baz | torkamanestan | | | 1 | 1 |  
2 | eraj afshar | | portre | | 1 | 2 | 2015  
(2 rows)
```

۳. نام و نام خانوادگی عکاسانی که جایزه برنده شده اند و ایرانی هستند:

```
SELECT photographer.name, photographer.surname FROM photographer JOIN(
award JOIN picture ON picture.id = award.picture_id) ON picture.camera_id =
photographer.camera_id Where photographer.nationality='irani';
```

```
photography=# SELECT photographer.name, photographer.surname FROM photographer JOIN( award JOIN picture ON picture.id = award.picture_id)
ON picture.camera_id = photographer.camera_id Where photographer.nationality='irani';
 name | surname
-----
 maryam | zandi
(1 row)

photography=#
photography=#
photography=#
```

عکس هایی که ارزش جایزه دلاری که برنده شده اند بیش از هزار دلار است:

```
SELECT picture.* FROM award JOIN picture ON award.picture_id = picture.id
WHERE award.dollar_price >1000;
```

بدون افزودن داده:

```
photography=# SELECT picture.* FROM award JOIN picture ON award.picture_id = picture.id WHERE award.dollar_price >1000;
 id | title | location | subject | file | camera_id | branch_id | year
-----+-----+-----+-----+-----+-----+-----+-----
(0 rows)

photography=#
```

با افزودن داده :

```
UPDATE award SET dollar_price = 1500 WHERE id=1;
```

```
photography=# SELECT picture.* FROM award JOIN picture ON award.picture_id = picture.id WHERE award.dollar_price >1000;
 id | title | location | subject | file | camera_id | branch_id | year
-----+-----+-----+-----+-----+-----+-----+-----
  1 | ali sag baz | torkamanestan |  |  | 1 | 1 |
(1 row)
```

نام مرکزی که بیشترین تعداد عکاس آمریکایی را داشته است

```
SELECT branch.name FROM branch JOIN photographer_branch ON branch.id =  
    photographer_branch.branch_id JOIN photographer ON photographer.id =  
    photographer_branch.photographer_id WHERE photographer.nationality =  
'american' GROUP BY branch.name ORDER BY COUNT(*) DESC FETCH FIRST 1  
ROW ONLY;
```

بدون افزودن داده :

```
name  
-----  
(0 rows)
```

با افزودن داده :

```
photography=# SELECT branch.name FROM branch JOIN photographer_branch ON branch.id = photographer_branch.branch_id JOIN photographer ON photographer.id = photographer_b  
ranch.photographer_id WHERE photographer.nationality = 'american' GROUP BY branch.name ORDER BY COUNT(*) DESC FETCH FIRST 1 ROW ONLY;  
name  
-----  
tv  
(1 row)
```

نام تمام عکاسانی که دوربین کنون داشته اند:

```
SELECT photographer.name FROM photographer JOIN camera ON  
photographer.camera_id = camera.id WHERE camera.brand = 'canon';
```

بدون افزودن داده:

```
photography=# SELECT photographer.name FROM photographer JOIN camera ON photographer.camera_id = camera.id WHERE camera.brand = 'canon';  
name  
-----  
(0 rows)
```

با افزودن داده:

```
photography=#  
photography=# SELECT photographer.name FROM photographer JOIN camera ON photographer.camera_id = camera.id WHERE camera.brand = 'canon';  
name  
-----  
hanie  
mah1  
(2 rows)
```

تمامی عکس هایی که بین تاریخ های ۲۰۰۰ تا ۲۰۱۰ گرفته شده اند و سوژه طبیعت داشتند:

```
SELECT * FROM picture WHERE year BETWEEN 2000 AND 2010 AND subject = 'tabiat';
```

بدون افزودن داده:

```
photography=# SELECT * FROM picture WHERE year BETWEEN 2000 AND 2010 AND subject = 'tabiat';
 id | title | location | subject | file | camera_id | branch_id | year
-----+-----+-----+-----+-----+-----+-----+-----
(0 rows)
```

با افزودن داده :

```
photography=# SELECT * FROM picture WHERE year BETWEEN 2000 AND 2010 AND subject = 'tabiat';
 id | title | location | subject | file | camera_id | branch_id | year
-----+-----+-----+-----+-----+-----+-----+-----
  3 | flower |          | tabiat |      |          2 |          | 2005
  4 | trees  |          | tabiat |      |          2 |          | 2010
(2 rows)
```