تمرین دوم آزمایشگاه پایگاه داده

سروش رستم نژاد - پرهام شیروانیون

تمرین تحقیقی :

با استفاده از رابط خط فرمان psql می توانید فایل ها را به PostgreSQL وارد کنید. سینتکس برای وارد کردن یک فایل به شرح زیر است:

```
\i /path/to/file.sql
```

این دستور دستورات SQL را در فایل مشخص شده اجرا می کند. همچنین می توانید از دستور COPY برای وارد کردن داده ها از یک فایل CSV استفاده کنید. در اینجا یک مثال است:

```
COPY table_name FROM '/path/to/file.csv' DELIMITER ',' CSV HEADER;
```

این دستور محتویات فایل CSV را در جدول مشخص شده کپی می کند. می توانید table_name را با نام جدول خود و /path/to/file.csv را با مسیر فایل CSV خود جایگزین کنید.

تمرين 1 :

Dashboard Properties SQL Statistics mysql/postgres@PostgreSQL 15*

mysql/postgres@PostgreSQL 15

No limit

Query Query History

```
1  select title from films;
```

Data Output Messages Notifications

	title character varying
1	Intolerance: Love's Struggle Throughout the Ages
2	Over the Hill to the Poorhouse
3	The Big Parade
4	Metropolis
5	Pandora's Box
6	The Broadway Melody
7	Hell's Angels
8	A Farewell to Arms

تمرين 2:

Query Query History

```
1  SELECT (10 / 3);
```

Data Output Messages Notifications

	?column? integer
1	3

تمرين 3 :

Query Query History

```
1  SELECT release_year from films;
```

Data Output Messages Notifications

	release_year integer
1	1916
2	1920
3	1925
4	1927
5	1929
6	1929
7	1930
8	1932

تمرين 4 :

```
1  SELECT name from people;
```

Data Output Messages Notification

	name character varying
1	50 Cent
2	A. Michael Baldwin
3	A. Raven Cruz
4	A.J. Buckley
5	A.J. DeLucia
6	A.J. Langer
7	Aaliyah
8	Aaron Ashmore
9	Aaron Hann
10	Aaron Hill
11	Aaron Hughes
12	Aaron Kwok
13	Aaron Schneider
14	Aaron Seltzer
15	Aaron Stanford
16	Aaron Staton
17	Aaron Yoo

تمرين 5 :

```
1  SELECT title from films;
```

Data Output Messages Notifications

	title character varying
1	Intolerance: Love's Struggle Throughout the Ages
2	Over the Hill to the Poorhouse
3	The Big Parade
4	Metropolis
5	Pandora's Box
6	The Broadway Melody
7	Hell's Angels
8	A Farewell to Arms
9	42nd Street
10	She Done Him Wrong
11	It Happened One Night
12	Top Hat
13	Modern Times
14	The Charge of the Light Brigade
15	Snow White and the Seven Dwarfs
16	The Prisoner of Zenda
17	Alexander's Ragtime Band
18	You Can't Take It with You

تمرين 6 :

```sql
SELECT title ,  release_year from films;
```

Data Output Messages Notifications

	title character varying	release_year integer
1	Intolerance: Love's Struggle Throughout the Ages	1916
2	Over the Hill to the Poorhouse	1920
3	The Big Parade	1925
4	Metropolis	1927
5	Pandora's Box	1929
6	The Broadway Melody	1929
7	Hell's Angels	1930
8	A Farewell to Arms	1932
9	42nd Street	1933
10	She Done Him Wrong	1933
11	It Happened One Night	1934
12	Top Hat	1935
13	Modern Times	1936
14	The Charge of the Light Brigade	1936
15	Snow White and the Seven Dwarfs	1937
16	The Prisoner of Zenda	1937
17	Alexander's Ragtime Band	1938

تمرين 7 :

```
1  SELECT title ,  release_year, country from films;
```

Data Output Messages Notifications

	title character varying	release_year integer	country character varying
1	Intolerance: Love's Struggle Throughout the Ages	1916	USA
2	Over the Hill to the Poorhouse	1920	USA
3	The Big Parade	1925	USA
4	Metropolis	1927	Germany
5	Pandora's Box	1929	Germany
6	The Broadway Melody	1929	USA
7	Hell's Angels	1930	USA
8	A Farewell to Arms	1932	USA
9	42nd Street	1933	USA
10	She Done Him Wrong	1933	USA
11	It Happened One Night	1934	USA
12	Top Hat	1935	USA
13	Modern Times	1936	USA
14	The Charge of the Light Brigade	1936	USA
15	Snow White and the Seven Dwarfs	1937	USA
16	The Prisoner of Zenda	1937	USA
17	Alexander's Ragtime Band	1938	USA
18	You Can't Take It with You	1938	USA

تمرين 8:

```
1  SELECT * from films;
```

Data Output Messages Notifications

	id [PK] integer	title character varying	release_year integer	country character varying	duration integer	language character varying	certificatior character va
1	1	Intolerance: Love's Struggle Throughout the Ages	1916	USA	123	[null]	Not Rated
2	2	Over the Hill to the Poorhouse	1920	USA	110	[null]	[null]
3	3	The Big Parade	1925	USA	151	[null]	Not Rated
4	4	Metropolis	1927	Germany	145	German	Not Rated
5	5	Pandora's Box	1929	Germany	110	German	Not Rated
6	6	The Broadway Melody	1929	USA	100	English	Passed
7	7	Hell's Angels	1930	USA	96	English	Passed
8	8	A Farewell to Arms	1932	USA	79	English	Unrated
9	9	42nd Street	1933	USA	89	English	Unrated
10	10	She Done Him Wrong	1933	USA	66	English	Approved
11	11	It Happened One Night	1934	USA	65	English	Unrated
12	12	Top Hat	1935	USA	81	English	Approved
13	13	Modern Times	1936	USA	87	English	G

تمرين 9 :

```
1  SELECT Distinct country from films;
```

Data Output Messages Notifications

	country character varying
1	[null]
2	Soviet Union
3	Indonesia
4	Italy
5	Cameroon
6	Czech Republic
7	Sweden
8	USA
9	Dominican Republic
10	Cambodia
11	Ireland
12	Germany
13	Canada
14	Finland
15	South Korea

تمرین 10 :

```
1  SELECT Distinct certification from films;
```

Data Output Messages Notifications

	certification character varying
1	Unrated
2	M
3	G
4	NC-17
5	GP
6	PG
7	Approved
8	[null]
9	X
10	PG-13
11	R
12	Not Rated
13	Passed

تمرین 11 :

```
1  SELECT Distinct role from roles;
```

Data Output Messages Notifications

	role character varying
1	director
2	actor

تمرین 12 :

```
1  SELECT count (*) AS records from people;
```

Data Output Messages Notifications

	records bigint
1	8397

تمرین 13 :

```
1  SELECT count(birthdate) AS counter from people;
```

Data Output Messages Notifications

	counter bigint
1	6152

تمرین 14 :

```
1  SELECT count(distinct birthdate) AS counter from people;
```

Data Output Messages Notifications

	counter bigint
1	5398

تمرین 15:

```
1  SELECT count(distinct country) AS counter from films;
```

Data Output Messages Notifications

	counter bigint
1	64

تمرین 16 :

```
1  SELECT * from films where  (release_year = 2016);
```

Data Output Messages Notifications

	id [PK] integer	title character varying	release_year integer	country character varying	duration integer	language character varying	certification character varying	gross bigint
1	4821	10 Cloverfield Lane	2016	USA	104	English	PG-13	7189721
2	4822	13 Hours	2016	USA	144	English	R	5282241
3	4823	A Beginner's Guide to Snuff	2016	USA	87	English	[null]	[null
4	4824	Airlift	2016	India	130	Hindi	[null]	[null
5	4825	Alice Through the Looking Glass	2016	USA	113	English	PG	7684662
6	4826	Allegiant	2016	USA	120	English	PG-13	6600219
7	4827	Alleluia! The Devil's Carnival	2016	USA	97	English	[null]	[null
8	4828	Antibirth	2016	USA	94	English	[null]	[null
9	4829	Bad Moms	2016	USA	100	English	R	5546130
10	4830	Bad Moms	2016	USA	100	English	R	5546130
11	4831	Batman v Superman: Dawn of Justice	2016	USA	183	English	PG-13	3302490
12	4832	Ben-Hur	2016	USA	141	English	PG-13	[null
13	4833	Ben-Hur	2016	USA	141	English	PG-13	[null
14	4834	Ben-Hur	2016	USA	141	English	PG-13	[null
15	4835	Cabin Fever	2016	USA	99	English	Not Rated	[null
16	4836	Captain America: Civil War	2016	USA	147	English	PG-13	4071972
17	4837	Central Intelligence	2016	USA	107	English	PG-13	1260888

تمرین 17 :

```
1  SELECT count(*) AS count_movies from films where  (release_year < 2000);
```

Data Output Messages Notifications

	count_movies bigint
1	1337

تمرين 18 :

	title character varying	release_year integer
1	15 Minutes	2001
2	3000 Miles to Graceland	2001
3	A Beautiful Mind	2001
4	A Knight's Tale	2001
5	A.I. Artificial Intelligence	2001
6	Ali	2001
7	Alias Betty	2001
8	All the Queen's Men	2001
9	Along Came a Spider	2001
10	Amélie	2001
11	America's Sweethearts	2001
12	American Desi	2001
13	American Outlaws	2001
14	American Pie 2	2001
15	Angel Eyes	2001
16	Antitrust	2001
17	Atlantis: The Lost Empire	2001
18	Ayurveda: Art of Being	2001

تمرین 19 :

```
1  SELECT * from films where  (language = 'French');
```

Data Output Messages Notifications

	id [PK] integer	title character varying	release_year integer	country character varying	duration integer	language character varying	certification character varying	gross bigint	budg bigin
1	108	Une Femme Mariée	1964	France	94	French	[null]	[null]	
2	111	Pierrot le Fou	1965	France	110	French	Not Rated	[null]	
3	140	Mississippi Mermaid	1969	France	123	French	R	26893	
4	423	Subway	1985	France	98	French	R	[null]	1
5	662	Les visiteurs	1993	France	107	French	R	700000	5
6	801	The Horseman on the Roof	1995	France	135	French	R	1877179	
7	916	When the Cat's Away	1996	France	91	French	R	1652472	
8	1004	The Chambermaid on the Titanic	1997	France	101	French	[null]	244465	
9	1026	The Swindle	1997	France	101	French	[null]	231417	6
10	1088	Les couloirs du temps: Les visiteurs II	1998	France	118	French	[null]	146072	14
11	1149	The Red Violin	1998	Canada	130	French	R	9473382	1
12	1487	The Widow of Saint-Pierre	2000	France	112	French	R	3058380	10
13	1515	Alias Betty	2001	France	103	French	[null]	206400	5
14	1518	Amélie	2001	France	122	French	R	33201661	7
15	1692	Wasabi	2001	France	94	French	R	81525	1
16	1701	8 Women	2002	France	111	French	R	3076425	
17	1788	Irreversible	2002	France	99	French	Not Rated	753501	
18	1795	L'auberge espagnole	2002	France					

تمرین 20 :

```
1  SELECT name , birthdate from people where  (birthdate = '1974-11-11');
```

Data Output Messages Notifications

	name character varying	birthdate date
1	Leonardo DiCaprio	1974-11-11

تمرین 21 :

```
1  SELECT count (*) AS count from films where  (language = 'Hindi');
```

Data Output Messages Notifications

	count bigint
1	28

تمرین 22 :

```
1 SELECT * from films where (certification = 'R');
```

Data Output Messages Notifications

	id [PK] integer	title character varying	release_year integer	country character varying	duration integer	language character varying	certificatic character
1	76	Psycho	1960	USA	108	English	R
2	99	A Fistful of Dollars	1964	Italy	99	Italian	R
3	134	Rosemary's Baby	1968	USA	136	English	R
4	140	Mississippi Mermaid	1969	France	123	French	R
5	145	The Wild Bunch	1969	USA	144	English	R
6	149	Catch-22	1970	USA	122	English	R
7	150	Cotton Comes to Harlem	1970	USA	97	English	R
8	153	The Ballad of Cable Hogue	1970	USA	121	English	R
9	154	The Conformist	1970	Italy	106	Italian	R
10	158	Woodstock	1970	USA	215	English	R
11	164	Sweet Sweetback's Baadasssss Song	1971	USA	97	English	R
12	166	The French Connection	1971	USA	104	English	R
13	167	The French Connection	1971	USA	104	English	R
14	172	Cries & Whispers	1972	Sweden	91	Swedish	R
15	173	Everything You Always Wanted to Know About Sex * But Were Afraid to A...	1972	USA	88	English	R
16	174	Frenzy	1972	UK	116	English	R
17	178	The Godfather	1972	USA	175	English	R

تمرین 23:

```
1 SELECT title, release_year from films where (release_year < '2000');
```

Data Output Messages Notifications

	title character varying	release_year integer
1	Intolerance: Love's Struggle Throughout the Ages	1916
2	Over the Hill to the Poorhouse	1920
3	The Big Parade	1925
4	Metropolis	1927
5	Pandora's Box	1929
6	The Broadway Melody	1929
7	Hell's Angels	1930
8	A Farewell to Arms	1932
9	42nd Street	1933
10	She Done Him Wrong	1933
11	It Happened One Night	1934
12	Top Hat	1935
13	Modern Times	1936
14	The Charge of the Light Brigade	1936
15	Snow White and the Seven Dwarfs	1937
16	The Prisoner of Zenda	1937
17	Alexander's Ragtime Band	1938
18	You Can't Take It with You	1938

تمرین 24 :

```
1  SELECT title, release_year from films where ('1990' < release_year and release_year < '
```

Data Output Messages Notifications

	title character varying	release_year integer
1	Beastmaster 2: Through the Portal of Time	1991
2	Bill & Ted's Bogus Journey	1991
3	Boyz n the Hood	1991
4	Cape Fear	1991
5	Double Impact	1991
6	Flight of the Intruder	1991
7	Freddy's Dead: The Final Nightmare	1991
8	Harley Davidson and the Marlboro Man	1991
9	Hook	1991
10	House Party 2	1991
11	Hudson Hawk	1991
12	JFK	1991
13	Johnny Suede	1991
14	My Girl	1991
15	My Own Private Idaho	1991
16	Return to the Blue Lagoon	1991
17	Robin Hood: Prince of Thieves	1991
18	Showdown in Little Tokyo	1991

تمرین 25 :

```
1  SELECT title, release_year from films where ('1990' < release_year and release_year < '
```

Data Output Messages Notifications

	title character varying	release_year integer
1	Beastmaster 2: Through the Portal of Time	1991
2	Bill & Ted's Bogus Journey	1991
3	Boyz n the Hood	1991
4	Cape Fear	1991
5	Double Impact	1991
6	Flight of the Intruder	1991
7	Freddy's Dead: The Final Nightmare	1991
8	Harley Davidson and the Marlboro Man	1991
9	Hook	1991
10	House Party 2	1991
11	Hudson Hawk	1991
12	JFK	1991
13	Johnny Suede	1991
14	My Girl	1991
15	My Own Private Idaho	1991
16	Return to the Blue Lagoon	1991
17	Robin Hood: Prince of Thieves	1991
18	Showdown in Little Tokyo	1991

Successfully run. Total query

تمرين 26 :

```
1 elease_year from films where ('1990' < release_year and release_year < '2000' and duration > 120)
```

Data Output Messages Notifications

	title character varying	release_year integer
1	Cape Fear	1991
2	Hook	1991
3	JFK	1991
4	Robin Hood: Prince of Thieves	1991
5	Terminator 2: Judgment Day	1991
6	The Doors	1991
7	The Fisher King	1991
8	The Prince of Tides	1991
9	The Silence of the Lambs	1991
10	A Few Good Men	1992
11	A League of Their Own	1992
12	Alien 3	1992
13	Batman Returns	1992
14	Bram Stoker's Dracula	1992
15	Hoffa	1992
16	Howards End	1992
17	Lethal Weapon 3	1992
18	Malcolm X	1992

Successfully run. Total

تمرين 27 :

```
1  SELECT name from people where deathdate IS NULL;
```

Data Output Messages Notifications

	name character varying
1	50 Cent
2	A. Michael Baldwin
3	A. Raven Cruz
4	A.J. Buckley
5	A.J. DeLucia
6	A.J. Langer
7	Aaron Ashmore
8	Aaron Hann
9	Aaron Hill
10	Aaron Hughes
11	Aaron Kwok
12	Aaron Schneider
13	Aaron Seltzer
14	Aaron Stanford
15	Aaron Staton
16	Aaron Yoo
17	Aasheekaa Bathija
18	Aasif Mandvi

تمرین 28 :

```
1  SELECT count(*) AS counter from films where language IS null OR  language = '';
```

Data Output Messages Notifications

	counter bigint
1	11

تمرین 29 :

```
1  SELECT name from people where name like 'B%';
```

Data Output Messages Notifications

	name character varying
1	B.J. Novak
2	Babak Najafi
3	Babar Ahmed
4	Bahare Seddiqi
5	Bai Ling
6	Bailee Madison
7	Balinese Tari Legong Dancers
8	Bálint Péntek
9	Baltasar Kormákur
10	Balthazar Getty
11	Bam Margera
12	Barack Obama
13	Barbara Bach
14	Barbara Billingsley
15	Barbara Carrera
16	Bárbara Goenaga
17	Barbara Hershey
18	Barbara Kowalcyk

تمرین 30 :

```
1  SELECT name from people where name like '_r%';
```

Data Output Messages Notifications

	name character varying
1	Ara Celi
2	Aramis Knight
3	Arben Bajraktaraj
4	Arcelia Ramírez
5	Archie Kao
6	Archie Panjabi
7	Aretha Franklin
8	Ari Folman
9	Ari Gold
10	Ari Graynor
11	Ari Kirschenbaum
12	Ari Sandel
13	Aria Noelle Curzon
14	Ariana Neal
15	Ariana Richards
16	Ariane Labed
17	Ariane Schluter
18	Arie Posin

تمرین 31 :

```
1  SELECT sum(duration) AS sum from films;
```

Data Output Messages Notifications

	sum bigint
1	534882

تمرین 32 :

```
1  select max(duration) from films;
```

Data Output Messages Notifications

	max integer
1	334

تمرین 33 :

```
1  select avg(duration) from films;
```

Data Output Messages Notifications

	avg numeric
1	107.9479313824419778

تمرین 34 :

```
1  select avg(gross) from films;
```

Data Output Messages Notifications

	avg numeric
1	48705108.257335257335

تمرین 35 :

```
1  select sum(gross) from films
2      where release_year>1999;
```

Data Output Messages Notifications

	sum numeric
1	150900926358

تمرین 36:

```
1  select avg(gross) from films where title like 'A%';
2
```

Data Output Messages Notifications

	avg numeric
1	47893236.422480620155

تمرین 37 :

```
select min(gross) from films
    where release_year=1994;
```

Data Output Messages Notifications

	min bigint
1	125169

سوال 38:

```
select max(gross) from films
    where release_year>2000 and release_year<2012;
```

Data Output Messages Notifications

	max bigint
1	760505847

سوال 39 :

```
Select ((count(*) - sum( birthdate - deathdate)) / count (*)) * 100.0 as alias from people;
```

Data Output Messages Notifications

	alias numeric
1	247800.0

سوال 40:

```
1  Select count(distinct floor(10.0 / release_year)) AS number_decades from films;
```

Data Output Messages Notifications

	number_decades bigint
1	1

سوال 41:

```
1  select * from films except select * from films where certification ='R';
```

Data Output Messages Notifications

	id integer	title character varying	release_year integer	country character varying	duration integer	language character varying	certification character varying	gross bigint	budget bigint
1	3089	Step Up 2: The Streets	2008	USA	98	English	PG-13	58006147	230000
2	3723	Grave Encounters	2011	Canada	92	English	Not Rated	[null]	1000
3	754	Bang	1995	USA	98	English	[null]	[null]	[nu
4	4349	A Lego Brickumentary	2014	Denmark	93	English	G	100240	10000
5	1642	Shrek	2001	USA	90	English	PG	267652016	600000
6	2318	Corpse Bride	2005	USA	77	English	PG	53337608	400000
7	1046	Babe: Pig in the City	1998	Australia	97	English	G	18318000	800000
8	4883	Pete's Dragon	2016	USA	102	English	PG	[null]	650000
9	2213	Short Cut to Nirvana: Kumbh Mela	2004	USA	85	English	Unrated	381225	2000
10	4161	Despicable Me 2	2013	USA	98	English	PG	368049635	760000
11	3420	Up	2009	USA	96	English	PG	292979556	1750000
12	3968	Katy Perry: Part of Me	2012	USA	93	English	PG	25240988	120000
13	601	Star Trek VI: The Undiscovered Country	1991	USA	110	English	PG	74888996	300000
14	4751	Stung	2015	Germany	87	English	Not Rated	[null]	25000
15	77	The Apartment	1960	USA	125	English	Approved	[null]	30000
16	2059	The Visual Bible: The Gospel of John	2003	Canada	125	English	PG-13	4068087	170000
17	3911	Blue Like Jazz	2012	USA	108	English	PG-13	594904	12000
18	1823	Rabbit-Proof Fence	2002	Australia					

✓ Successfully run. Total query runtime: 81 msec. 2850 rows affected.

سوال 42 :

```
1  select title, gross as net_profit from films;
```

Data Output Messages Notifications

	title character varying	net_profit bigint
1	Intolerance: Love's Struggle Throughout the Ages	[null]
2	Over the Hill to the Poorhouse	3000000
3	The Big Parade	[null]
4	Metropolis	26435
5	Pandora's Box	9950
6	The Broadway Melody	2808000
7	Hell's Angels	[null]
8	A Farewell to Arms	[null]
9	42nd Street	2300000
10	She Done Him Wrong	[null]
11	It Happened One Night	[null]
12	Top Hat	3000000
13	Modern Times	163245
14	The Charge of the Light Brigade	[null]
15	Snow White and the Seven Dwarfs	184925485
16	The Prisoner of Zenda	[null]
17	Alexander's Ragtime Band	[null]
18	You Can't Take It with You	[null]

سوال 43 :

```
1  Select title, duration/60 as duration_hours from films;
```

Data Output Messages Notifications

	title character varying	duration_hours integer
1	Intolerance: Love's Struggle Throughout the Ages	2
2	Over the Hill to the Poorhouse	1
3	The Big Parade	2
4	Metropolis	2
5	Pandora's Box	1
6	The Broadway Melody	1
7	Hell's Angels	1
8	A Farewell to Arms	1
9	42nd Street	1
10	She Done Him Wrong	1
11	It Happened One Night	1
12	Top Hat	1
13	Modern Times	1
14	The Charge of the Light Brigade	1
15	Snow White and the Seven Dwarfs	1
16	The Prisoner of Zenda	1
17	Alexander's Ragtime Band	1
18	You Can't Take It with You	2

سوال 44:

```
1  Select avg(duration/60) as avg_duration_hours from films;
```

Data Output Messages Notifications

	avg_duration_hours numeric
1	1.2413723511604440

سوال 45:

```
Select name from people
Order by name;
```

Data Output Messages Notifications

	name character varying
1	50 Cent
2	A. Michael Baldwin
3	A. Raven Cruz
4	A.J. Buckley
5	A.J. DeLucia
6	A.J. Langer
7	Aaliyah
8	Aaron Ashmore
9	Aaron Hann
10	Aaron Hill
11	Aaron Hughes
12	Aaron Kwok
13	Aaron Schneider
14	Aaron Seltzer
15	Aaron Stanford
16	Aaron Staton
17	Aaron Yoo
18	Aasheekaa Bathija

سوال 46 :

```
Select name from people Order by birthdate;
```

Data Output Messages Notifications

	name character varying
1	Robert Shaw
2	Lucille La Verne
3	Mary Carr
4	D.W. Griffith
5	Finlay Currie
6	Lionel Barrymore
7	Billy Gilbert
8	Cecil B. DeMille
9	Leopold Stokowski
10	Éric Tessier
11	Rex Baker
12	Billie Burke
13	John Reinhardt
14	Allan Dwan
15	Georg Wilhelm Pabst
16	Harry F. Millarde
17	Rudolf Klein-Rogge
18	Deems Taylor

سوال 47 :

```
Select birthdate, name from people
Order by birthdate;
```

Data Output Messages Notifications

	birthdate date	name character varying
1	1837-10-10	Robert Shaw
2	1872-11-07	Lucille La Verne
3	1874-03-14	Mary Carr
4	1875-01-22	D.W. Griffith
5	1878-01-20	Finlay Currie
6	1878-04-28	Lionel Barrymore
7	1880-03-21	Billy Gilbert
8	1881-08-12	Cecil B. DeMille
9	1882-04-18	Leopold Stokowski
10	1883-05-28	Éric Tessier
11	1884-02-08	Rex Baker
12	1884-08-07	Billie Burke
13	1885-03-11	John Reinhardt
14	1885-04-03	Allan Dwan
15	1885-08-25	Georg Wilhelm Pabst
16	1885-11-12	Harry F. Millarde
17	1885-11-24	Rudolf Klein-Rogge
18	1885-12-22	Deems Taylor

سوال 48:

```
Select title from films
Where release_year=2000 or release_year=2012
Order by release_year;
```

Data Output Messages Notifications

	title character varying
1	102 Dalmatians
2	28 Days
3	3 Strikes
4	Aberdeen
5	All the Pretty Horses
6	Almost Famous
7	American Psycho
8	Amores Perros
9	An Everlasting Piece
10	Anatomy
11	Autumn in New York

سوال 49 :

```sql
Select * from films
Except Select * from films where release_year=2015
Order by duration;
```

Data Output Messages Notifications

	id integer	title character varying	release_year integer	country character varying	duration integer	language character varying	certification character varying	g b
1	2926	The Touch	2007	USA	7	English	[null]	
2	4098	Vessel	2012	USA	14	English	[null]	
3	2501	Wal-Mart: The High Cost of Low Price	2005	USA	20	English	Not Rated	
4	4929	Anger Management	[null]	USA	22	English	[null]	
5	4927	10,000 B.C.	[null]	[null]	22	[null]	[null]	
6	4968	Yu-Gi-Oh! Duel Monsters	[null]	Japan	24	Japanese	[null]	
7	4944	Lovesick	[null]	UK	24	English	[null]	
8	4942	Jesse	[null]	USA	30	English	[null]	
9	4937	Fired Up	[null]	USA	30	English	[null]	
10	4965	Wings	[null]	USA	30	English	[null]	
11	4955	The Honeymooners	[null]	USA	30	English	[null]	
12	4953	The Doombolt Chase	[null]	UK	30	English	[null]	
13	4945	Meet the Browns	[null]	USA	30	English	[null]	
14	566	Marilyn Hotchkiss' Ballroom Dancing and Charm School	1990	USA	34	English	[null]	
15	2829	Jesus People	2007	USA	35	English	[null]	
16	462	Evil Dead II	1987	USA	37	English	X	

Successfully run. Total query runtime: 86 msec. 4742 rows affected.

Total rows: 1000 of 4742 Query complete 00:00:00.086

سوال 50:

```
Select title, gross from films
where title like 'M%' order by title ASC;
```

Data Output Messages Notifications

	title character varying	gross bigint
1	MacGruber	8460995
2	Machete	26589953
3	Machete Kills	7268659
4	Machine Gun McCain	[null]
5	Machine Gun Preacher	537580
6	Mad City	10556196
7	Mad Hot Ballroom	8044906
8	Mad Max	[null]
9	Mad Max 2: The Road Warrior	9003011
10	Mad Max Beyond Thunderdome	36200000
11	Mad Max: Fury Road	153629485
12	Mad Money	20668843
13	Madadayo	48856
14	Madagascar	193136719
15	Madagascar 3: Europe's Most Wanted	216366733
16	Madagascar: Escape 2 Africa	179982968
17	Made	5308707