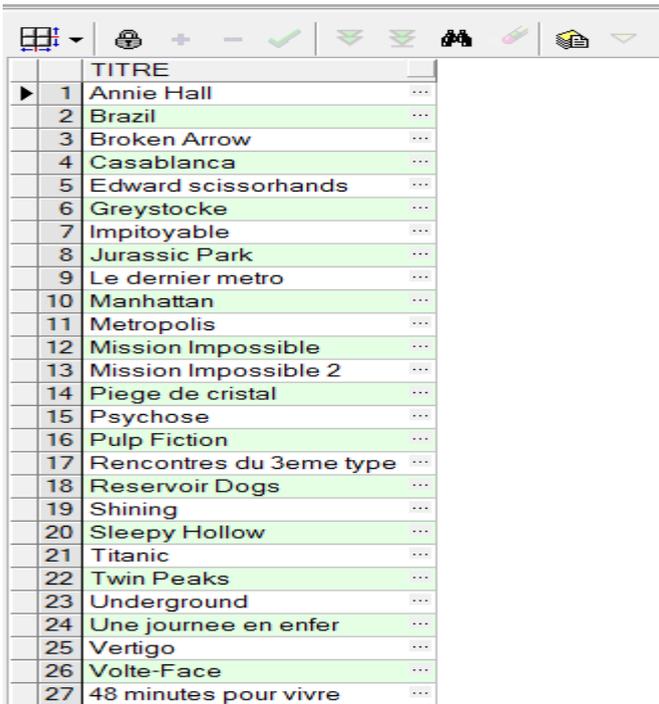


TP de Base de données CINEMA

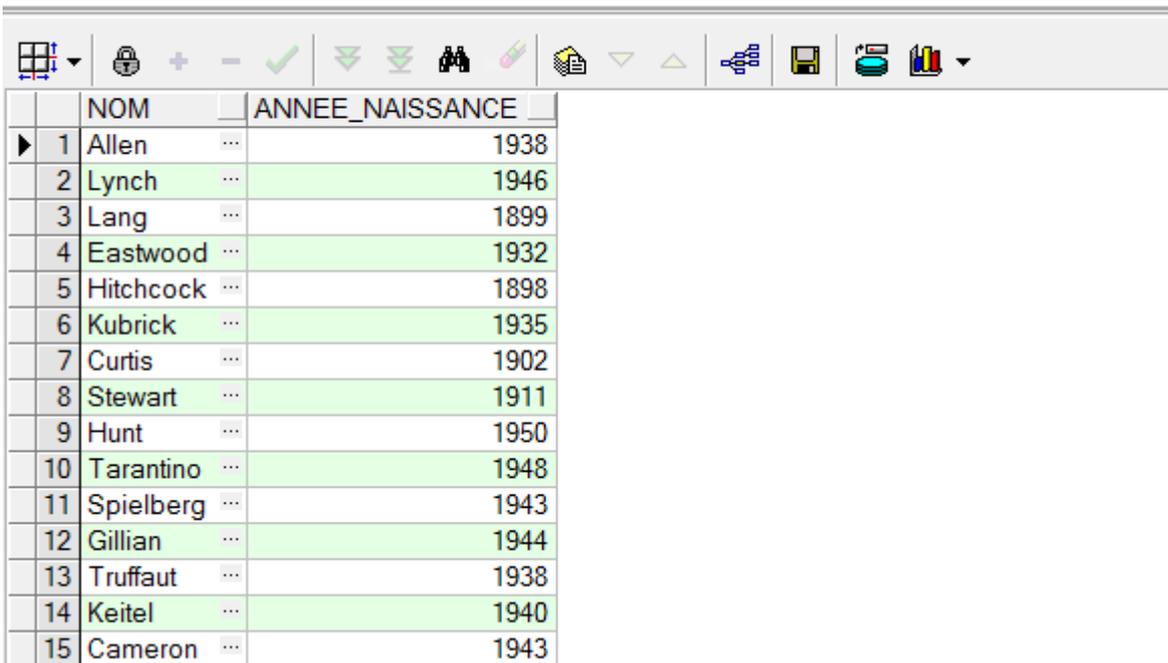
Exercice 1: ✓ ✗

1. `select titre from film order by titre;`



	TITRE	
▶ 1	Annie Hall	...
2	Brazil	...
3	Broken Arrow	...
4	Casablanca	...
5	Edward scissorhands	...
6	Greystocke	...
7	Impitoyable	...
8	Jurassic Park	...
9	Le dernier metro	...
10	Manhattan	...
11	Metropolis	...
12	Mission Impossible	...
13	Mission Impossible 2	...
14	Piege de cristal	...
15	Psychose	...
16	Pulp Fiction	...
17	Rencontres du 3eme type	...
18	Reservoir Dogs	...
19	Shining	...
20	Sleepy Hollow	...
21	Titanic	...
22	Twin Peaks	...
23	Underground	...
24	Une journee en enfer	...
25	Vertigo	...
26	Volte-Face	...
27	48 minutes pour vivre	...

2. `select nom, annee_naissance from artiste where annee_naissance <=1950;`



	NOM	ANNEE_NAISSANCE
▶ 1	Allen	1938
2	Lynch	1946
3	Lang	1899
4	Eastwood	1932
5	Hitchcock	1898
6	Kubrick	1935
7	Curtis	1902
8	Stewart	1911
9	Hunt	1950
10	Tarantino	1948
11	Spielberg	1943
12	Gillian	1944
13	Truffaut	1938
14	Keitel	1940
15	Cameron	1943

3. `select * from cinema where arrondissement = 12;`



	NOM_CINEMA	ARRON	ADRESSE
▶ 1	Nations	12	3 Rue de Reuilly

4. `select * from artiste where nom like 'H%';`

	NOM	PRENOM	ANNEE_NAISSANCE
▶ 1	Hitchcock ...	Alfred	1898
2	Hunt ...	Greg	1950
3	Hudson ...	Hugh	

5. `select nom, prenom from artiste where annee_naissance is null;`

	NOM	PRENOM
▶ 1	Novak ...	Kim
2	Hudson ...	Hugh

6. `select count(*) from role where nom_acteur='Willis' and nom_role='McLane';`

	COUNT(*)
▶ 1	3

Exercice 2:

1. `select nom_acteur, prenom from role, artiste where nom_acteur = nom and nom_role = 'Tarzan';`

	NOM_ACTEUR	PRENOM
▶ 1	Lambert	Christophe

2. `select nom_acteur from film f, role r where r.id_film = f.id_film and f.titre= 'Vertigo';`

	NOM_ACTEUR
▶ 1	Novak ...
2	Stewart ...

3. `select titre,Heure_debut from film f,seance s where f.id_film = s.id_film and nom_cinema = 'Rex';`

	TITRE	HEURE_DEBUT
▶ 1	Metropolis ...	9.00
2	Metropolis ...	9.00
3	Metropolis ...	9.00
4	Vertigo ...	9.00
5	Shining ...	9.00
6	Psychose ...	9.00
7	Reservoir Dogs ...	9.00
8	Jurassic Park ...	9.00
9	Jurassic Park ...	9.00
10	Jurassic Park ...	9.00
11	Une journee en enfer ...	9.00
12	Une journee en enfer ...	9.00

```
4. select titre, nom_role from film f,role r
   where f.id_film=r.id_film and nom_acteur='Allen';
```

	TITRE	NOM_ROLE
1	Manhattan	Davis
2	Annie Hall	Jonas

```
5. select nom_acteur,nom_role, titre from film f, role r
   where f.id_film=r.id_film and nom_realisateur = nom_acteur;
```

	NOM_ACTEUR	NOM_ROLE	TITRE
4	Allen	Davis	Manhattan
1	Allen	Jonas	Annie Hall
2	Eastwood	Munny	Impitoyable
3	Tarantino	Mr Brown	Reservoir Dogs

```
6. select distinct nom_acteur,nom_role, f2.titre from film f1, film f2, role r
   where f1.nom_realisateur = r.nom_acteur and f2.id_film = r.id_film;
```

	NOM_ACTEUR	NOM_ROLE	TITRE
1	Truffaut	Bernard	Rencontres du 3eme type
2	Allen	Davis	Manhattan
3	Tarantino	Mr Brown	Reservoir Dogs
4	Allen	Jonas	Annie Hall
5	Eastwood	Munny	Impitoyable

```
7. select c.nom_cinema,adresse, heure_debut, heure_fin from film f, seance s, cinema c
   where f.titre = 'Shining' and s.id_film = f.id_film and s.nom_cinema = c.nom_cinema;
```

	NOM_CINEMA	ADRESSE	HEURE_DEBUT	HEURE_FIN
1	Rex	22 Bd Poissoniere	9,00	9,00
2	Kino	3 Bd Raspail	9,00	9,00
3	Nations	3 Rue de Reuilly	9,00	9,00
4	Nations	3 Rue de Reuilly	9,00	9,00
5	Nations	3 Rue de Reuilly	9,00	9,00

```
8. select titre, a1.nom as "Metteur en scene", a2.nom as "Interprete"
   from film f, role r, artiste a1, artiste a2
   where f.id_film = r.id_film
   and f.nom_realisateur = a1.nom
   and r.nom_acteur = a2.nom
   and a1.nom <> a2.nom
   and a1.prenom = a2.prenom;
```

	TITRE	Metteur en scene	Interprete
1	Broken Arrow	Woo	Travolta
2	Volte-Face	Woo	Travolta

```

9. select titre, c.nom_cinema, heure_debut, heure_fin
   from film f, seance s, cinema c, role r
   where r.nom_acteur = 'Eastwood'
   and s.id_film = f.id_film
   and s.nom_cinema = c.nom_cinema
   and s.id_film = r.id_film;

```

	TITRE	NOM_CINEMA	HEURE_DEBUT	HEURE_FIN
▶ 1	Impitoyable ...	Halles	9,00	9,00

```

10. select f.titre, c.nom_cinema, s.no_salle, heure_debut, heure_fin
   from film f, seance s, cinema c, salle t
   where t.climatise = 'O'
   and s.id_film = f.id_film
   and s.nom_cinema = c.nom_cinema
   and t.nom_cinema = c.nom_cinema
   and s.no_salle = t.no_salle
   and c.arrondissement = 12;

```

	TITRE	NOM_CINEMA	NO_SALLE	HEURE_DEBUT	HEURE_FIN
1	Vertigo ...	Nations	1	9,00	9,00
2	Vertigo ...	Nations	1	9,00	9,00
▶ 3	Vertigo ...	Nations	1	9,00	9,00

```

SELECT DISTINCT cinema.Nom_cinema,
                seance.heure_debut,
                seance.heure_fin,
                salle.no_salle,
                film.titre
FROM cinema, seance, salle, film
WHERE cinema.nom_cinema = salle.nom_cinema
   and cinema.arrondissement = '12'
   and salle.nom_cinema = seance.nom_cinema
   and climatise = 'O'
   and seance.id_film = film.id_film;

```

	NOM_CINEMA	HEURE_DEBUT	HEURE_FIN	NO_SALLE	TITRE
▶ 1	Nations	9,00	9,00	1	Vertigo ...
2	Nations	9,00	9,00	1	Shining ...
3	Nations	9,00	9,00	1	Manhattan ...

```

11. select distinct c.nom_cinema, adresse, arrondissement, capacite
from seance s, cinema c, salle t, role r
where r.nom_acteur = 'Willis'
and s.id_film = r.id_film
and s.nom_cinema = c.nom_cinema
and t.nom_cinema = c.nom_cinema
and t.capacite > 150
and t.no_salle = s.no_salle;

```

	NOM_CINEMA	ADRESSE	ARRONDISSEMENT	CAPACITE
▶ 1	Kino	3 Bd Raspail	...	15
				280

```

12. select c.nom_cinema, c.adresse from cinema c
where 100 < ALL(select capacite from salle s
where s.nom_cinema = c.nom_cinema);

```

	NOM_CINEMA	ADRESSE
▶ 1	Kino	3 Bd Raspail

```

FROM Cinema c, Salle sa
WHERE c.Nom_cinema = sa.Nom_cinema
GROUP BY c.Nom_cinema,c.Adresse
HAVING COUNT(*) = (SELECT COUNT(*)
FROM Cinema c1, Salle sa
WHERE c.Nom_cinema = sa.Nom_cinema
AND c1.Nom_cinema = c.Nom_cinema
AND sa.Capacite >100);

```

	NOM_CINEMA	ADRESSE
▶ 1	Kino	3 Bd Raspail

Exercice 3

```

1. select nom from artiste
MINUS
select nom_realisateur from film;

```

	NOM
1	Cage
2	Cruise
3	Depp
4	DiCaprio
▶ 5	Keitel
6	Lambert
7	Novak
8	Ricci
9	Stewart
10	Travolta
11	Willis

```
1. select nom from artiste
   where nom not in (select nom_realisateur from film);
```

	NOM
7	Cage
4	Cruise
3	Depp
6	DiCaprio
10	Keitel
11	Lambert
8	Novak
9	Ricci
▶ 1	Stewart
5	Travolta
2	Willis

```
2. select c.nom_cinema, c.adresse
   from cinema c where NOT EXISTS
   (select * from seance s, film f where Nom_realisateur = 'Tarantino'
    and f.id_film = s.id_film and s.Nom_cinema = c.Nom_cinema);
```

	NOM_CINEMA	ADRESSE
▶ 1	Nations	3 Rue de Reuilly
2	Halles	Forum des Halles

```
2. SELECT DISTINCT c.Nom_cinema, c.Adresse
   FROM Cinema c,seance s
   WHERE c.Nom_cinema = s.Nom_cinema
   AND c.nom_cinema NOT IN
   (SELECT nom_cinema FROM Film f, seance sa
    WHERE Nom_realisateur = 'Tarantino' and sa.id_film=f.id_film )
```

	NOM_CINEMA	ADRESSE
1	Nations	3 Rue de Reuilly
▶ 2	Halles	Forum des Halles

Exercice 4

```
1. select sum(capacite) from salle
   where nom_cinema = 'Rex';
```

	SUM(CAPACITE)
▶ 1	410

```
2. select min(annee), max(annee) from film;
```

	MIN(ANNEE)	MAX(ANNEE)
▶ 1	1926	2000

```
3. select nom_cinema, sum(capacite)
   from salle group by nom_cinema;
```

	NOM_CINEMA	SUM(CAPACITE)
▶ 1	Rex	410
2	Halles	195
3	Nations	280
4	Kino	530

```
4. select nom, prenom, count(titre)
   from artiste a, film f
   where f.nom_realisateur = a.nom
   group by nom, prenom;
```

	NOM	PRENOM	COUNT(TITRE)
5	Allen	Woody	2
3	Burton	Tim	2
12	Cameron	James	1
8	Curtis	Michael	1
10	De Palma	Brian	1
13	Eastwood	Clint	1
18	Gillian	Terry	1
4	Hitchcock	Alfred	2
14	Hudson	Hugh	1
9	Hunt	Greg	3
16	Kubrick	Stanley	1
6	Kusturica	Emir	1
7	Lang	Fritz	1
▶ 1	Lynch	David	1
17	Spielberg	Steven	2
11	Tarantino	Quentin	2
15	Truffaut	Francois	1
2	Woo	John	3

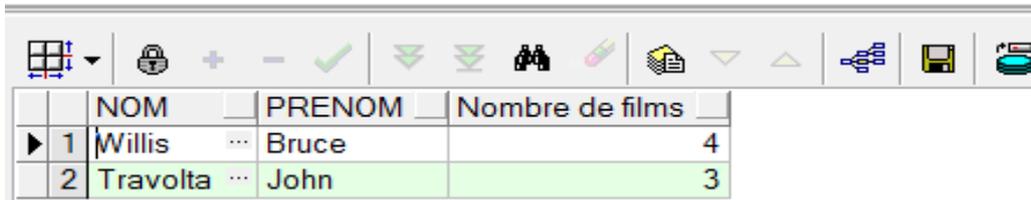
```
5. select nom_cinema, count(*)
   from salle where climatise = 'O'
   group by nom_cinema
   having count(*)>1;
```

	NOM_CINEMA	COUNT(*)
▶ 1	Rex	2
2	Kino	2

```

6. select nom, Prenom , count(*) as "Nombre de films"
   from artiste a, role r, film f
   where a.nom = r.Nom_acteur
   and EXISTS (select * from seance s , film f, role r1
               where s.id_film = f.id_film
                  and r1.id_film = f.id_film
                  and r1.nom_acteur = a.Nom)
   and r.id_film = f.id_film
   and f.annee > 1985
   group by nom, prenom
   having count(*) >= 3;

```



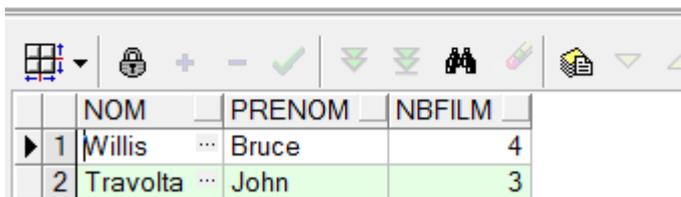
	NOM	PRENOM	Nombre de films
1	Willis	Bruce	4
2	Travolta	John	3

Deuxième solution :

```

SELECT a.Nom,a.Prenom, COUNT(*) AS NBFILM
FROM Artiste a,Film f, Role r
WHERE a.Nom = r.Nom_acteur
AND f.ID_Film = r.ID_Film
AND f.annee > 1984
GROUP BY a.Nom,a.Prenom
HAVING COUNT(*) >= 3;

```



	NOM	PRENOM	NBFILM
1	Willis	Bruce	4
2	Travolta	John	3

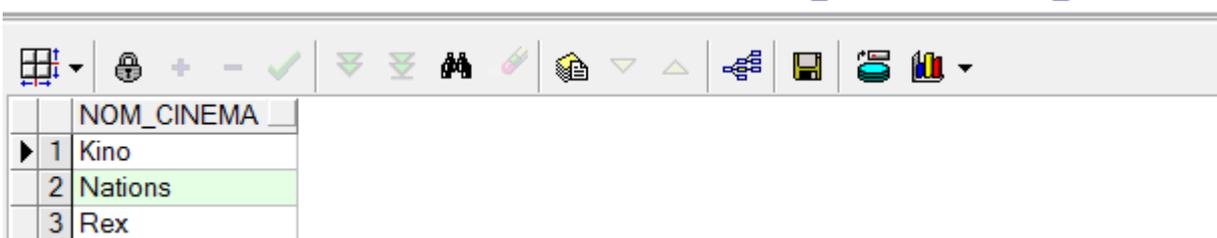
Exercice 5

Première solution:

```

1. SELECT c.nom_cinema FROM cinema c
   WHERE NOT EXISTS
   (SELECT * FROM film f WHERE nom_realisateur = 'Kubrick'
    AND NOT EXISTS (SELECT * FROM seance s
                    WHERE f.id_film = s.id_film
                    AND s.nom_cinema = c.nom_cinema));

```



	NOM_CINEMA
1	Kino
2	Nations
3	Rex

Deuxième solution:

```

1. SELECT s.nom_cinema FROM seance s , film f
   WHERE s.id_film = f.id_film AND f.nom_realisateur = 'Kubrick'
   GROUP BY s.nom_cinema HAVING COUNT(DISTINCT s.nom_cinema) =
   (SELECT COUNT(*) FROM film f WHERE f.nom_realisateur = 'Kubrick');

```



	NOM_CINEMA
▶ 1	Rex
2	Nations
3	Kino

```

SELECT c.Nom_Cinema
FROM Cinema c, Film f, seance s
WHERE s.ID_Film = f.ID_Film
AND c.Nom_cinema = s.Nom_cinema
AND f.Nom_realisateur = 'Kubrick'
GROUP BY c.Nom_Cinema
HAVING COUNT(DISTINCT f.ID_Film) = ( SELECT COUNT(*)
                                     FROM Film f
                                     WHERE Nom_realisateur = 'Kubrick');

```



	NOM_CINEMA
▶ 1	Rex
2	Nations
3	Kino