Requête 1 :

SELECT * FROM prestation;

id_prestation	type_prestation
1	Plat principal
2	Plat + Dessert
3	Entrée + Plat
4	Supplément Entrée
5	Supplément dessert
6	Repas complet
7	Alcool
8	Apéritif
9	Soda

Requête 2 :

SELECT u.* , c.libelle_categorie

FROM usager AS u

NATURAL JOIN categorie AS c;

id_carte	nom	id_categorie	montant_caution	date_carte	libelle_categorie
C1	Nina Mcdowell	3	6	2022-08-27	Gros revenus
C10	Francesca Briggs	2	9	2022-08-16	Revenus moyens
C11	Abdul Weiss	2	9	2022-09-19	Revenus moyens
C12	Rinah Reilly	1	8	2022-09-11	Petits revenus
C13	Kimberley Bryan	1	9	2022-09-17	Petits revenus
C14	Galena Keller	1	7	2022-08-16	Petits revenus
C15	Francesca Briggs	1	9	2022-08-16	Petits revenus
C2	Murphy Lane	2	9	2022-08-15	Revenus moyens
C3	Hillary Garza	2	7	2022-09-07	Revenus moyens
C4	Ciaran Ball	3	6	2022-09-11	Gros revenus
C5	Kirsten Norton	3	7	2022-09-28	Gros revenus
C6	Abdul Weiss	3	9	2022-09-19	Gros revenus
C7	Rinah Reilly	1	8	2022-09-11	Petits revenus
C8	Kimberley Bryan	3	9	2022-09-17	Gros revenus
C9	Galena Keller	4	7	2022-08-16	Visiteurs

Requête 3 :

```
SELECT u.nom , u.id_carte
 FROM usager as u;
```

nom	id_carte
Nina Mcdowell	C1
Francesca Briggs	C10
Abdul Weiss	C11
Rinah Reilly	C12
Kimberley Bryan	C13
Galena Keller	C14
Francesca Briggs	C15
Murphy Lane	C2
Hillary Garza	C3
Ciaran Ball	C4
Kirsten Norton	C5
Abdul Weiss	C6
Rinah Reilly	C7
Kimberley Bryan	C8
Galena Keller	C9

Requête 4 :

```
CREATE VIEW Moyenne_depot AS (
SELECT AVG(d.montant) AS moyenne_depot
FROM depot AS d
);
```

27.2414

Requête 5 :

```
SELECT MAX(montant) AS montant_maximum
FROM depot;
```

80

Requête 6 :

```
CREATE VIEW depot_usager AS (
  SELECT depot.montant , usager.nom
  FROM depot
  NATURAL JOIN usager
  ORDER BY depot.id_carte
```

```
);
SELECT * FROM depot_usager;
```

montant	nom
5	Nina Mcdowell
30	Nina Mcdowell
5	Francesca Briggs
25	Francesca Briggs
25	Francesca Briggs
30	Francesca Briggs
30	Rinah Reilly
80	Rinah Reilly
20	Kimberley Bryan
40	Kimberley Bryan
20	Galena Keller
30	Galena Keller
30	Francesca Briggs
30	Francesca Briggs
45	Francesca Briggs
15	Murphy Lane
20	Murphy Lane
30	Murphy Lane
40	Hillary Garza
20	Ciaran Ball
30	Ciaran Ball
60	Abdul Weiss
5	Rinah Reilly
20	Rinah Reilly
30	Rinah Reilly

Requête 7 :

```
SELECT nom
FROM usager
WHERE montant_caution >10;
```

SQL a retourné vide.

Requête 8 :

```
SELECT nom,id_categorie
FROM usager
ORDER BY id_categorie;
```

nom	id_categorie
Rinah Reilly	1
Kimberley Bryan	1
Galena Keller	1
Francesca Briggs	1
Rinah Reilly	1
Francesca Briggs	2
Abdul Weiss	2
Murphy Lane	2
Hillary Garza	2
Nina Mcdowell	3
Ciaran Ball	3
Kirsten Norton	3
Abdul Weiss	3
Kimberley Bryan	3
Galena Keller	4

Requête 9 :

```
SELECT u.nom
FROM usager AS u
NATURAL JOIN depot AS d
WHERE d.montant>15;
```

nom
Nina Mcdowell
Francesca Briggs
Francesca Briggs
Francesca Briggs
Rinah Reilly

Rinah Reilly

Kimberley Bryan

Kimberley Bryan

Galena Keller

Galena Keller

Francesca Briggs

Francesca Briggs

Francesca Briggs

Murphy Lane

Murphy Lane

Hillary Garza

Ciaran Ball

Ciaran Ball

Abdul Weiss

Rinah Reilly

Rinah Reilly

Kimberley Bryan

Kimberley Bryan

Galena Keller

Requête 10 :

```
SELECT u.nom
FROM usager AS u
NATURAL JOIN depot AS d
WHERE d.montant<0;
```

Sql a retourné vide.

Requête 11 :

```
SELECT u.nom , COUNT(d.montant) AS nombre_depot
FROM depot AS d
NATURAL JOIN usager  AS u
GROUP BY u.id_carte;
```

nom	nombre_depot
Nina Mcdowell	2
Francesca Briggs	4
Rinah Reilly	2

Kimberley Bryan	2
Galena Keller	2
Francesca Briggs	3
Murphy Lane	3
Hillary Garza	1
Ciaran Ball	2
Abdul Weiss	1
Rinah Reilly	3
Kimberley Bryan	2
Galena Keller	2

Requête 12 :

```
CREATE VIEW supplement_entree_acheter AS (
  SELECT DISTINCT u.nom
  FROM usager AS u
  JOIN ticket AS t ON u.id_carte = t.id_carte
  JOIN achat AS a ON t.id_ticket = a.id_ticket
  JOIN prestation AS p ON a.id_prestation = p.id_prestation
  WHERE p.id_prestation = '4'
);
SELECT * FROM supplement_entree_acheter;
```

nom
Nina Mcdowell
Hillary Garza
Francesca Briggs

Requête 13 :

```
SELECT u.nom ,p.id_prestation
FROM usager AS u
NATURAL JOIN prestation as p
ORDER BY p.id_prestation;
```

nom	id_prestation
Ciaran Ball	1
Kimberley Bryan	1

Francesca Briggs	1
Rinah Reilly	1
Abdul Weiss	1
Kirsten Norton	1
Rinah Reilly	1
Francesca Briggs	1
Nina Mcdowell	1
Kimberley Bryan	1
Abdul Weiss	1
Galena Keller	1
Hillary Garza	1
Murphy Lane	1
Galena Keller	1
Francesca Briggs	2
Galena Keller	2
Galena Keller	2
Rinah Reilly	2
Murphy Lane	2
Kimberley Bryan	2
Ciaran Ball	2
Nina Mcdowell	2
Kimberley Bryan	2
Hillary Garza	2

Requête 14 :

```
SELECT COUNT(t.id_carte) AS nombre_personne, COUNT(t.id_ticket) AS nombre_ticket
FROM ticket AS t
WHERE t.date_achat='2022-11-22';
```

3	3

Requête 15 :

```
SELECT u.nom, t.date_achat
FROM usager AS u
JOIN ticket AS t ON u.id_carte = t.id_carte
GROUP BY u.nom, t.date_achat
ORDER BY u.nom, t.date_achat;
```

nom	date_achat
Abdul Weiss	2022-11-14
Abdul Weiss	2022-12-27
Ciaran Ball	2022-11-02
Ciaran Ball	2022-11-15
Ciaran Ball	2022-11-24
Ciaran Ball	2022-12-12
Francesca Briggs	2022-09-01
Francesca Briggs	2022-10-14
Francesca Briggs	2022-10-17
Francesca Briggs	2022-10-20
Galena Keller	2022-09-21
Galena Keller	2022-10-12
Galena Keller	2022-11-22
Galena Keller	2022-12-19
Hillary Garza	2022-10-11
Hillary Garza	2022-10-20
Hillary Garza	2022-10-24
Kimberley Bryan	2022-10-18
Kimberley Bryan	2022-11-15
Kimberley Bryan	2022-11-22
Kimberley Bryan	2022-11-23
Murphy Lane	2022-10-11
Murphy Lane	2022-10-13
Murphy Lane	2022-11-02
Murphy Lane	2022-11-10

Requête 16 :

```
SELECT COUNT(u.nom) AS nombre_personne
  FROM usager AS u
  JOIN ticket AS t ON u.id_carte = t.id_carte
  JOIN achat AS a ON t.id_ticket = a.id_ticket
  JOIN prestation AS p ON a.id_prestation = p.id_prestation
  WHERE p.id_prestation = '8';
```

5

Requête 17 :

```
SELECT a.nombre AS Nombre_achat, t.date_achat AS date_achat , p.type_prestation AS liste
FROM usager as u
JOIN ticket AS t ON u.id_carte = t.id_carte
JOIN achat AS a ON t.id_ticket = a.id_ticket
JOIN prestation AS p ON a.id_prestation = p.id_prestation
WHERE u.nom = 'Nina Mcdowell';
```

Nombre_achat	date_achat	liste
1	2022-10-03	Plat principal
2	2022-10-03	Alcool
1	2022-10-05	Plat principal
2	2022-10-05	Supplément Entrée
3	2022-10-05	Soda
1	2022-10-10	Repas complet
1	2022-10-10	Apéritif
1	2022-10-11	Plat principal
2	2022-10-11	Supplément Entrée
1	2022-10-11	Alcool
3	2022-11-02	Repas complet

Requête 18 :

```
CREATE VIEW recette_supp_entree AS (
SELECT SUM(t.prix * a.nombre) AS recette
FROM tarif AS t
JOIN achat AS a ON t.id_prestation = a.id_prestation
JOIN prestation AS p ON a.id_prestation = p.id_prestation
WHERE p.id_prestation = '4');
SELECT * FROM recette_supp_entree;
```

recette

29.70

Requête 19 :

```
SELECT SUM(t.prix * a.nombre) AS recette
FROM achat AS a
JOIN ticket AS t ON a.id_ticket = t.id_ticket
JOIN usager AS u ON t.id_carte = u.id_carte
JOIN tarif as t ON a.id_prestation = t.id_prestation AND u.id_categorie = t.id_categorie
JOIN categorie as cat ON u.id_categorie = cat.id_categorie
WHERE cat.id_categorie = '1';
```

82.30

Requête 20 :

```
SELECT SUM(t.prix * a.nombre) AS recette_du_jour
FROM tarif AS t
JOIN achat AS a ON t.id_prestation = a.id_prestation
JOIN ticket AS ti ON a.id_ticket = ti.id_ticket
WHERE ti.date_achat = '2022-11-22';
```

183.90

Requête 21 :

```
SELECT u.nom, COUNT(a.id_ticket)
FROM achat AS a
Join ticket AS t ON a.id_ticket = t.id_ticket
JOIN usager AS u ON t.id_carte = u.id_carte
WHERE a.id_prestation='6'
GROUP BY u.id_carte
HAVING COUNT(a.id_ticket)>=2;
```

nom	COUNT(a.id_ticket)
Nina Mcdowell	2
Ciaran Ball	2
Rinah Reilly	2

Requête 22 :

```
SELECT u.nom , t.date_achat
FROM usager AS u
JOIN ticket AS t ON u.id_carte = t.id_carte
Where u.nom = 'Nina Mcdowell'
ORDER BY t.date_achat DESC
LIMIT 1;
```

Nina Mcdowell 2022-11-02

Requête 23 :

```
SELECT u.nom , t.date_achat
FROM usager AS u
JOIN ticket AS t ON u.id_carte = t.id_carte
ORDER BY t.date_achat DESC
LIMIT 1;
```

Abdul Weiss 2022-12-27

Requête 24 :

```
SELECT ROUND(COUNT(DISTINCT usager_acheteur.id_carte) * 100.0 / COUNT(DISTINCT us.id_carte), 2) AS pourcentage
FROM
  usager as us
LEFT JOIN (
  SELECT DISTINCT t.id_carte
  FROM achat as a
  JOIN ticket as t ON a.id_ticket = t.id_ticket
  JOIN prestation as p ON a.id_prestation = p.id_prestation
  WHERE p.type_prestation = 'Plat principal'
) AS usager_acheteur ON us.id_carte = usager_acheteur.id_carte;
```

53.33

Requête 25 :

```
SELECT *
FROM (
  SELECT DISTINCT p.id_prestation
  FROM prestation as p
  JOIN achat as a on a.id_prestation=p.id_prestation
  JOIN ticket as t on t.id_ticket=a.id_ticket
  WHERE MONTH(t.date_achat)=9) as Prestation_Achete
RIGHT JOIN prestation as pr on pr.id_prestation=Prestation_Achete.id_prestation
WHERE Prestation_Achete.id_prestation IS NULL;
```

id_prestation	id_prestation	type_prestation
NULL	2	Plat + Dessert
NULL	3	Entrée + Plat
NULL	6	Repas complet
NULL	7	Alcool
NULL	8	Apéritif
NULL	9	Soda

Requête 26 :

```
SELECT *
FROM (
  SELECT DISTINCT p.id_prestation
  FROM prestation as p
  JOIN achat as a on a.id_prestation=p.id_prestation
  JOIN ticket as t on t.id_ticket=a.id_ticket
  JOIN usager as u on u.id_carte=t.id_carte
  WHERE u.nom='Nina Mcdowell') as Prestation_Achete
RIGHT JOIN prestation as pr on pr.id_prestation=Prestation_Achete.id_prestation
WHERE Prestation_Achete.id_prestation IS NULL;
```

id_prestation	id_prestation	type_prestation

NULL	2	Plat + Dessert
NULL	3	Entrée + Plat
NULL	5	Supplément dessert

Requête 27:

```
SELECT *
FROM (
   SELECT DISTINCT p.id_prestation
   FROM prestation as p
   JOIN achat as a on a.id_prestation=p.id_prestation
   JOIN ticket as t on t.id_ticket=a.id_ticket
   JOIN usager as u on u.id_carte=t.id_carte
   WHERE u.nom='Abdul Weiss') as Prestation_Achete
RIGHT JOIN prestation as pr on pr.id_prestation=Prestation_Achete.id_prestation
WHERE Prestation_Achete.id_prestation IS NOT NULL;
```

id_prestation	id_prestation	type_prestation
6	6	Repas complet
1	1	Plat principal
9	9	Soda

Requête 28:

```
SELECT SUM(ta.prix*a.nombre) AS Recette_Soda_Apperitif_Alcool
FROM tarif AS ta
```

```
JOIN prestation as p ON p.id_prestation=ta.id_prestation
JOIN achat AS a ON a.id_prestation=p.id_prestation
WHERE p.id_prestation IN (7,8,9);
```

Recette_Soda_Apperitif_Alcool

276.40

Requête 29:

```
SELECT Achat_Alcool.nom
FROM (
  SELECT DISTINCT u.nom
  FROM prestation as p
  JOIN achat as a on p.id_prestation=a.id_prestation
  JOIN ticket as t on t.id_ticket=a.id_ticket
  JOIN usager as u on u.id_carte=t.id_carte
  WHERE a.id_prestation='7') AS Achat_Alcool
JOIN (SELECT DISTINCT u.nom
  FROM prestation as p
  JOIN achat as a on p.id_prestation=a.id_prestation
  JOIN ticket as t on t.id_ticket=a.id_ticket
  JOIN usager as u on u.id_carte=t.id_carte
  WHERE a.id_prestation='8') AS Achat_Apperitif ON Achat_Alcool.nom = Achat_Apperitif.nom;
```

nom

Nina Mcdowell

Murphy Lane

Ciaran Ball

Rinah Reilly

Requête 30 :

```
CREATE USER 'user12'@'localhost' IDENTIFIED BY 'mot_de_passe_secure';
```

Requête 31 :

```
RENAME USER 'user12'@'localhost' TO 'francis_la_malisse'@'localhost';
```

Requête 32 :

```
DROP USER 'francis_la_malisse'@'localhost';
```