

TD4 :BDD LECLERC-suite

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Introduction

Ce TP a pour objectif de nous initier à la conception et à l'exploitation d'une base de données relationnelle. À partir d'un **Modèle Conceptuel de Données (MCD)** représentant des clients et leurs catégories socioprofessionnelles, nous avons appris à le transformer en **Modèle Relationnel de Données (MRD)**, puis à créer la structure correspondante dans une base de données.

Question :1

Reprendre votre base de données du TD4 et ajouter les tables & champs manquants.

	Table	Action
<input type="checkbox"/>	achat	★ Bro
<input type="checkbox"/>	categorie	★ Bro
<input type="checkbox"/>	client	★ Bro
<input type="checkbox"/>	produit	★ Bro

Question :2

insérez les enregistrements ci-dessous dans la base de données

		num	nom	prix
Edit	Copy	Delete	1 PS4	400.00
Edit	Copy	Delete	2 Lave linge éco++	700.00
Edit	Copy	Delete	3 Iphone 8	850.00
Edit	Copy	Delete	4 Ipod nano	200.00
Edit	Copy	Delete	5 Brosse à dent	3.00
Edit	Copy	Delete	6 Pain	1.00
Edit	Copy	Delete	7 SGS 7	750.00
Edit	Copy	Delete	8 DVD	20.00
Edit	Copy	Delete	9 Jeux PC	50.00

☐ Check all With selected: Edit Copy Delete

Question :3

Insérer les achats ci-dessous dans la base de données (en cas d'erreur, veuillez modifier votre base de données pour rendre les enregistrements possible) : • le 14/11/2016 : M. Voduk à acheter 2 pains et une brosse à dent • le 15/11/2016 : M. Voduk à acheter 1 pain et une PS4 • le 14/11 : le client n°1 à acheter le produit n°1 • le 10/11 : le client n°10 à acheter le produit 9 & le produit 8 à cette même date le client n°9 à acheter le produit n°1

`SELECT * FROM `achat``

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 | Filter rows: Sort

Extra options

			num_client	num_produit	date_achat	nombre
<input type="checkbox"/>	Edit	Copy	Delete	1	1 2016-11-14	3
<input type="checkbox"/>	Edit	Copy	Delete	1	3 2016-11-15	1
<input type="checkbox"/>	Edit	Copy	Delete	9	1 2016-11-10	1
<input type="checkbox"/>	Edit	Copy	Delete	10	8 2016-11-10	1
<input type="checkbox"/>	Edit	Copy	Delete	10	9 2016-11-10	1

☐ Check all With selected: Edit Copy Delete Export

Question :4

En mode SQL, veuillez effectuer les requêtes de votre dossier 3.4 (à partir de la question 7)

(Les requête que j'ai taper sont dans les capture d'écran)
question dossier

Question 7 :

The screenshot shows a SQL query interface with the following elements:

- Query: `SELECT nom FROM `categorie` WHERE 1;`
- Buttons: ☐ Profiling, [\[Edit inline \]](#), [\[Edit \]](#), [\[Explain SQL \]](#), [\[Create PHP code \]](#)
- Controls: ☐ Show all, Number of rows: 25, Filter rows: []
- Extra options: []
- Table header:

	nom
--	-----
- Table body:

<input type="checkbox"/>	Edit Copy Delete non renseigné
<input type="checkbox"/>	Edit Copy Delete ouvrier
<input type="checkbox"/>	Edit Copy Delete cadre
<input type="checkbox"/>	Edit Copy Delete sans-emploi
<input type="checkbox"/>	Edit Copy Delete autres
- Footer: [↑](#) ☐ Check all With selected: [Edit](#) [Copy](#)

Question 8 :

The screenshot shows a SQL query interface with the following elements:

- Status: ✓ Showing rows 0 - 9 (10 total, Query took 0.0003 seconds.)
- Query: `SELECT nom, prenom FROM client;`
- Buttons: ☐ Profiling, [\[Edit inline \]](#), [\[Edit \]](#), [\[Explain SQL \]](#), [\[Create PHP code \]](#)
- Controls: ☐ Show all, Number of rows: 25, Filter rows: []
- Extra options: []
- Table header:

	nom	prenom
--	-----	--------
- Table body:

<input type="checkbox"/>	Edit Copy Delete Qausi Nathan
<input type="checkbox"/>	Edit Copy Delete Vimif Lucas
<input type="checkbox"/>	Edit Copy Delete Gulya Enzo
<input type="checkbox"/>	Edit Copy Delete Vetea Léo
<input type="checkbox"/>	Edit Copy Delete Lossu Louis
<input type="checkbox"/>	Edit Copy Delete Ebote Emma
<input type="checkbox"/>	Edit Copy Delete Talam Léa
<input type="checkbox"/>	Edit Copy Delete Julyn Chloé
<input type="checkbox"/>	Edit Copy Delete Voduk Manon
<input type="checkbox"/>	Edit Copy Delete Tuuji Ines
- Footer: [↑](#) ☐ Check all With selected: [Edit](#) [Copy](#)

Question 9 :

✓ Showing rows 0 - 9 (10 total, Query took 0.0003 seconds.)

```
SELECT ville FROM client;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

	ville
<input type="checkbox"/> Edit Copy Delete	Paris
<input type="checkbox"/> Edit Copy Delete	Paris
<input type="checkbox"/> Edit Copy Delete	Courbevoie
<input type="checkbox"/> Edit Copy Delete	Nanterre
<input type="checkbox"/> Edit Copy Delete	Paris
<input type="checkbox"/> Edit Copy Delete	Paris
<input type="checkbox"/> Edit Copy Delete	Courbevoie
<input type="checkbox"/> Edit Copy Delete	Paris
<input type="checkbox"/> Edit Copy Delete	Paris
<input type="checkbox"/> Edit Copy Delete	Nanterre

↑ ☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#)

☐ Show all | Number of rows: 25 | Filter rows:

Query results operations

Question 10 :

✓ Showing rows 0 - 2 (3 total, Query took 0.0004 seconds.)

```
SELECT DISTINCT ville FROM `client`;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)]

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

	ville
<input type="checkbox"/> Edit Copy Delete	Paris
<input type="checkbox"/> Edit Copy Delete	Courbevoie
<input type="checkbox"/> Edit Copy Delete	Nanterre

Question 11 :

Showing rows 0 - 9 (10 total, Query took 0.0004 seconds.)

```
SELECT ville , num_categorie FROM `client`;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

	ville	num_categorie
<input type="checkbox"/> Edit Copy Delete	Paris	1
<input type="checkbox"/> Edit Copy Delete	Paris	3
<input type="checkbox"/> Edit Copy Delete	Courbevoie	3
<input type="checkbox"/> Edit Copy Delete	Nanterre	4
<input type="checkbox"/> Edit Copy Delete	Paris	4
<input type="checkbox"/> Edit Copy Delete	Paris	2
<input type="checkbox"/> Edit Copy Delete	Courbevoie	3
<input type="checkbox"/> Edit Copy Delete	Paris	2
<input type="checkbox"/> Edit Copy Delete	Paris	5
<input type="checkbox"/> Edit Copy Delete	Nanterre	2

☐ Check all
 With selected: [Edit](#) [Copy](#) [Delete](#)

Question 12 :

La ville ayant toute les catégories est Paris

Question 13 :

Showing rows 0 - 8 (9 total, Query took 0.0003 seconds.)

```
SELECT nom from produit;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#)

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

	nom
<input type="checkbox"/> Edit Copy Delete	PS4
<input type="checkbox"/> Edit Copy Delete	Lave linge éco++
<input type="checkbox"/> Edit Copy Delete	Iphone 8
<input type="checkbox"/> Edit Copy Delete	Ipod nano
<input type="checkbox"/> Edit Copy Delete	Brosse à dent
<input type="checkbox"/> Edit Copy Delete	Pain
<input type="checkbox"/> Edit Copy Delete	SGS 7
<input type="checkbox"/> Edit Copy Delete	DVD
<input type="checkbox"/> Edit Copy Delete	Jeux PC

☐ Check all
 With selected: [Edit](#) [Copy](#)

Question 14 :

✓ Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

```
SELECT num_produit FROM achat;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refr](#)

☐ Show all | Number of rows: 25 ▾ Filter rows:

Extra options

	num_produit
<input type="checkbox"/> Edit Copy Delete	1
<input type="checkbox"/> Edit Copy Delete	1
<input type="checkbox"/> Edit Copy Delete	3
<input type="checkbox"/> Edit Copy Delete	8
<input type="checkbox"/> Edit Copy Delete	9

⬆ ☐ Check all With selected: [Edit](#) [Copy](#) [Delete](#)

☐ Show all | Number of rows: 25 ▾ Filter rows:

Question 15 :

✓ Showing rows 0 - 8 (9 total, Query took 0.0003 seconds.) [prix: 1.00... - 850.00...]

```
SELECT nom , prix FROM `produit` ORDER by prix;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 ▾ Filter rows:

Extra options

	nom	prix
<input type="checkbox"/> Edit Copy Delete	Pain	1.00
<input type="checkbox"/> Edit Copy Delete	Brosse à dent	3.00
<input type="checkbox"/> Edit Copy Delete	DVD	20.00
<input type="checkbox"/> Edit Copy Delete	Jeux PC	50.00
<input type="checkbox"/> Edit Copy Delete	Ipod nano	200.00
<input type="checkbox"/> Edit Copy Delete	PS4	400.00
<input type="checkbox"/> Edit Copy Delete	Lave linge éco++	700.00
<input type="checkbox"/> Edit Copy Delete	SGS 7	750.00
<input type="checkbox"/> Edit Copy Delete	Iphone 8	850.00

⬆ ☐ Check all With selected: [Edit](#) [Copy](#) [Delete](#) [Exp](#)

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Question 16 :

Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.) [date_achat: 2016-11-15... - 2016-11-10...]

```
SELECT num_produit, date_achat FROM achat ORDER BY date_achat DESC;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key:

Extra options

	num_produit	date_achat
<input type="checkbox"/> Edit Copy Delete	3	2016-11-15
<input type="checkbox"/> Edit Copy Delete	1	2016-11-14
<input type="checkbox"/> Edit Copy Delete	1	2016-11-10
<input type="checkbox"/> Edit Copy Delete	8	2016-11-10
<input type="checkbox"/> Edit Copy Delete	9	2016-11-10

☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key:

Question 17 :

Showing rows 0 - 9 (10 total, Query took 0.0003 seconds.) [nom: EBOTE... - VODUK...]

```
SELECT nom, prenom FROM client ORDER BY nom ASC;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key

Extra options

	nom	prenom
<input type="checkbox"/> Edit Copy Delete	Ebote	Emma
<input type="checkbox"/> Edit Copy Delete	Gulya	Enzo
<input type="checkbox"/> Edit Copy Delete	Julyn	Chloé
<input type="checkbox"/> Edit Copy Delete	Lossu	Louis
<input type="checkbox"/> Edit Copy Delete	Qausi	Nathan
<input type="checkbox"/> Edit Copy Delete	Talam	Léa
<input type="checkbox"/> Edit Copy Delete	Tuuji	Ines
<input type="checkbox"/> Edit Copy Delete	Vetea	Léo
<input type="checkbox"/> Edit Copy Delete	Vimif	Lucas
<input type="checkbox"/> Edit Copy Delete	Voduk	Manon

☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

Question 18 :

✓ Showing rows 0 - 2 (3 total, Query took 0.0003 seconds.)

```
SELECT nom,prix FROM `produit` WHERE prix >500;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	nom	prix
<input type="checkbox"/> Edit Copy Delete	Lave linge éco++	700.00
<input type="checkbox"/> Edit Copy Delete	Iphone 8	850.00
<input type="checkbox"/> Edit Copy Delete	SGS 7	750.00

↑ ☐ Check all With selected: Edit Copy Delete

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Question 19 :

✓ Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT * FROM client WHERE num = 2;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	num	nom	prenom	adresse	cp	ville	tel	num_categorie
<input type="checkbox"/> Edit Copy Delete	2	Vimif	Lucas	NULL	NULL	Paris	NULL	3

↑ ☐ Check all With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table

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Question 20 :

Run SQL query/queries on table leclerc.achat:

```
1 SELECT *
2 FROM achat
3 WHERE date BETWEEN '2014-01-01' AND '2014-12-31';
4 |
```

Question 21 :
faite sur le dossier

Question 22 :

Showing rows 0 - 9 (10 total, Query took 0.0004 seconds.)

```
SELECT client.nom, client.prenom, categorie.nom AS nom_categorie FROM client, categorie WHERE categorie.num = client.num_categorie;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 Filter rows:

Extra options

nom	prenom	nom_categorie
Qausi	Nathan	non renseigné
Ebote	Emma	ouvrier
Julyn	Chloé	ouvrier
Tuuji	Ines	ouvrier
Vimif	Lucas	cadre
Gulya	Enzo	cadre
Talam	Léa	cadre
Vetea	Léo	sans-emploi
Lossu	Louis	sans-emploi
Voduk	Manon	autres

Question 23 :

N'ayant pas de colonne e-mail, j'en ai créé une.

Showing rows 0 - 9 (10 total, Query took 0.0004 seconds.)

```
SELECT client.email, categorie.nom AS nom_categorie FROM client, categorie WHERE categorie.num = client.num_categorie;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

email	nom_categorie
NULL	non renseigné
NULL	ouvrier
NULL	ouvrier
NULL	ouvrier
NULL	cadre
NULL	cadre
NULL	cadre
NULL	sans-emploi
NULL	sans-emploi
NULL	autres

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Question 24 :

Le champ e-mail n'étant pas rempli il est difficile de les distinguer, mais quand je regarde combien

Showing rows 0 - 2 (3 total, Query took 0.0004 seconds.)

```
SELECT email FROM client WHERE num_categorie = 3;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	email
<input type="checkbox"/> Edit Copy Delete	NULL
<input type="checkbox"/> Edit Copy Delete	NULL
<input type="checkbox"/> Edit Copy Delete	NULL

☐ Check all With selected: Edit Copy Delete

il y a du client cadre, il y en a bien 3 comme sur l'affichage ci-dessous

Question 26 :

je n'ai pas de Mr fifi dans mes client alors j'ai remplacer avec ines

Showing rows 0 - 1 (2 total, Query took 0.0005 seconds.)

```
SELECT produit.nom FROM client, achat, produit WHERE client.num = achat.num_client AND produit.num = achat.num_produit AND client.prenom = 'Ines';
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

	nom
<input type="checkbox"/> Edit Copy Delete	DVD
<input type="checkbox"/> Edit Copy Delete	Jeux PC

☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

Question 29 :

Your SQL query has been executed successfully.

```
SELECT COUNT(*) num_produit FROM achat;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

Extra options

num_produit
5

Query results operations

Question 30 :

Your SQL query has been executed successfully.

```
SELECT COUNT(*) num_client FROM client;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)]

Extra options

num_client
10

Query results operations

Question 31 :

✓ Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT AVG(prix) AS prix_moyen, MIN(prix) AS prix_min, MAX(prix) AS prix_max FROM produit;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 ▾ | Filter rows:

Extra options

prix_moyen	prix_min	prix_max
330.444444	1.00	850.00

☐ Show all | Number of rows: 25 ▾ | Filter rows:

Question 32 :

✓ Showing rows 0 - 4 (5 total, Query took 0.0005 seconds.)

```
SELECT a.num_client, c.nom, c.prenom, a.num_produit, p.prix, a.nombre AS quantite, (a.nombre * p.prix) AS montant_total, a.date_achat FROM achat a JOIN client c ON a.num_client = c.num JOIN produit p ON a.num_produit = p.num LIMIT 0, 25;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

Extra options

num_client	nom	prenom	num_produit	prix	quantite	montant_total	date_achat
1	Qausi	Nathan	1	400.00	3	1200.00	2016-11-14
1	Qausi	Nathan	3	850.00	1	850.00	2016-11-15
9	Voduk	Manon	1	400.00	1	400.00	2016-11-10
10	Tuuij	Ines	8	20.00	1	20.00	2016-11-10
10	Tuuij	Ines	9	50.00	1	50.00	2016-11-10

Question 33 :

✓ Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT SUM(a.nombre * p.prix) AS chiffre_affaire FROM achat a JOIN produit p ON a.num_produit = p.num;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 ▾ | Filter rows:

Extra options

chiffre_affaire
2520.00

☐ Show all | Number of rows: 25 ▾ | Filter rows:

Question 34 :

Showing rows 0 - 4 (5 total, Query took 0.0004 seconds.) [nom: QAUSI... - VODUK...] [date_achat: 2016-11-14... - 2016-11-10...]

```
SELECT c.nom, c.prenom, p.nom AS produit, a.nombre AS quantite, a.date_achat FROM achat a JOIN client c ON a.num_client = c.num JOIN produit p ON a.num_produit = p.num ORDER BY c.nom, a.date_achat LIMIT 0, 25;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

nom	1	prenom	produit	quantite	date_achat
Qausi		Nathan	PS4	3	2016-11-14
Qausi		Nathan	Iphone 8	1	2016-11-15
Tuujj		Ines	Jeux PC	1	2016-11-10
Tuujj		Ines	DVD	1	2016-11-10
Voduk		Manon	PS4	1	2016-11-10

Query results operations

Question 36 :

Showing rows 0 - 2 (3 total, Query took 0.0006 seconds.)

```
SELECT SUM(prix * nombre) AS ca, client.nom, client.email FROM produit, achat, client WHERE produit.num = achat.num_produit AND client.num = achat.num_client GROUP BY client.nom, client.email ORDER BY SUM(prix * nombre) DESC;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	ca	nom	email
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2050.00	Qausi	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	400.00	Voduk	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	70.00	Tuujj	NULL

↑ ☐ Check all | With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

Question 37 :

Showing rows 0 - 3 (4 total, Query took 0.0004 seconds.)

```
SELECT p.nom AS produit, SUM(p.prix * a.nombre) AS ca FROM achat a JOIN produit p ON a.num_produit = p.num GROUP BY p.nom ORDER BY ca DESC LIMIT 0, 25;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

produit	ca	1
PS4	1600.00	
Iphone 8	850.00	
Jeux PC	50.00	
DVD	20.00	

Query results operations

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Question 38 :

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)

```
SELECT c.num, c.prenom, SUM(a.nombre) AS total_produits_achetes FROM achat a JOIN client c ON a.num_client = c.num GROUP BY c.num, c.num, c.prenom HAVING SUM(a.nombre) >= 10 ORDER BY total_produits_achetes DESC;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

nom	prenom	total_produits_achetes
-----	--------	------------------------

Query results operations

[Create view](#)

[Bookmark this SQL query](#)

Label: ☐ Let every user access this bookmark

il n'y en a aucun

Question 39 :

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)

```
SELECT c.num, c.email, SUM(a.nombre * p.prix) AS total_depense FROM achat a JOIN client c ON a.num_client = c.num JOIN produit p ON a.num_produit = p.num GROUP BY c.num, c.num, c.email HAVING SUM(a.nombre * p.prix) > 1000 ORDER BY total_depense DESC;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

nom	email	total_depense
Qausi	NULL	2050.00

☐ Show all | Number of rows: 25 | Filter rows:

Query results operations

Question 40 :

Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.) [prix: 850.00... - 850.00...]

```
SELECT * FROM produit ORDER BY prix DESC LIMIT 1;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

Extra options

	num	nom	prix
<input type="checkbox"/> Edit Copy Delete	3	Iphone 8	850.00

[Check all](#) | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

Query results operations

[Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

Question 41 :

Warning: select() uses not column a unique column. On this, uniqueness, but, copy and paste required are not available.

Showing rows 0 - 0 (1 total, Query took 0.0009 seconds) [nom: QAUSI... - QAUSI...] [prenom: NATHAN... - NATHAN...]

```
SELECT c.nom, c.prenom, c.email, a.nombre AS quantite_achetee, (a.nombre * p.prix) AS montant_depense FROM achat a JOIN client c ON a.num_client = c.num JOIN produit p ON a.num_produit = p.num WHERE p.prix = (SELECT MAX(prix) FROM produit) ORDER BY montant_depense DESC, c.nom, c.prenom;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

nom	prenom	email	quantite_achetee	montant_depense
Qausi	Nathan	NULL	1	850.00

Show all | Number of rows: 25 | Filter rows: Search this table

Conclusion

À travers ce TP, nous avons pu comprendre les différentes étapes nécessaires à la mise en place d'une base de données, depuis la modélisation jusqu'à l'exploitation des données. La création des tables, l'insertion des enregistrements et l'utilisation de requêtes SQL ont permis de mieux maîtriser les commandes SELECT, JOIN, ORDER BY, DISTINCT et les fonctions de comptage.

Ce travail montre l'importance d'une bonne modélisation des données pour faciliter les requêtes et garantir la cohérence de la base. Les compétences acquises lors de ce TP sont essentielles pour le développement d'applications informatiques utilisant des bases de données relationnelles.