Télécharger le script de création de bd :biblio\_base.txt

Faire le graphe de table

Lancer le script

Mettre en ordre la création des tables

Mettre en ordre la création des tuples

**Creation de bd biblio**

CREATE DATABASE IF NOT EXISTS biblio ;

USE biblio ;

**Les tuples dans la table**

SELECT [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/group-by-functions.html#function_count)(\*) FROM `oeuvres`;

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) [count](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/group-by-functions.html#function_count)(\*) FROM `livres`;

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/group-by-functions.html#function_count)(\*) FROM `emprunter`;

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/group-by-functions.html#function_count)(\*) FROM `adherents`;

**Attributs dans la table**

**La cle peimaire de la table**

Les clés primaires sont soulignées et placées en premier dans la liste des attributs.

* Oeuvers(**NO**)
* Adherents(**NA**)
* Livres(**NL**)
* Emprunter(**NL, dateEmp**)

**Les livres actuellement emprunter**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) distinct titre FROM biblio.oeuvres, biblio.emprunter,biblio.livres WHERE livres.NO = oeuvres.NO [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) livres.NL = emprunter.NL [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) emprunter.dateRet != current\_date

**Les livres emprunter par Jeanette Le cœur**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) distinct titre,nom,prenom FROM biblio.adherents,biblio.emprunter,biblio.oeuvres,biblio.livres where emprunter.NA=adherents.NA [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) livres.NO = oeuvres.NO [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) livres.NL = emprunter.NL [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) adherents.NA = 1;

**Les livres emprunter en Septembre 2009**

*Dans notre bases des données on a pas eu des résultat sur les livres qu’on a emprunter en 2009 et on la change en 2021*

[select](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) distinct titre FROM oeuvres,livres,emprunter WHERE dateEmp between '2021-09-01' [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) '2021-09-30' [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) oeuvres.NO = livres.NO [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) livres.NL = emprunter.NL;

**les adhérents qui ont emprunté un livre de Fedor Dostoievski**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) nom,prenom FROM oeuvres,adherents,emprunter,livres where auteur = 'Fedor DOSTOIEVSKI' [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) oeuvres.NO = livres.NO [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) adherents.NA = emprunter.NA [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) livres.NL = emprunter.NL;

**Creation des nouvelles adherent**

[insert](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/insert.html) into biblio.adherents(nom,prenom,adr,tel) [values](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/miscellaneous-functions.html#function_values)('Dupont','Olivier','76 quai de la Loire 75019 Paris',0102030405);

**Mise a jour de BD**

* *Martine CROZIER vient d’emprunter ‘Au cœur des ténèbres’ qu’on vient d’ajouter et ‘Le rouge et le noir’ chez hachette, livre n°23*

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) NA, nom, prenom FROM adherents WHERE upper(nom) = 'MARTINE' [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) upper(prenom) = 'CROZIER';

* *M. Cyril FREDERIC ramène le livre qu’il a empruntes*

UPDATE `emprunter` SET dateRet = now()

WHERE NA = 28

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) NA, nom, prenom FROM adherents WHERE upper(nom) = 'FREDERIC' [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) upper(prenom) = 'CYRIL';

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) \* FROM `emprunter` WHERE dateRet [is](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/comparison-operators.html#operator_is) NULL [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) NA = 28;

* *M. Cyril FREDERIC essaye d’emprunter le livre n°23*

INSERT INTO emprunter

VALUES (23, CURRENT\_DATE(), 14, NULL, 28);

* *M. Cyril FREDERIC essaye d’emprunter le livre n°29*

INSERT INTO emprunter

INSERT INTO emprunter

VALUES (29, CURRENT\_DATE(), 14, NULL, 28);

**Les auteurs du titre ‘Voyage au bout de la nuit’**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) auteur FROM biblio.oeuvres where titre= 'Voyage au bout de la nuit';

**Les editeurs du titre ‘Narcisse et Goldmund’**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) distinct editeur FROM biblio.livres,biblio.oeuvres where livres.NO=oeuvres.NO [and](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) oeuvres.titre='Narcisse et Goldmund';

**Les adherents actuellement en retard**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) DISTINCT dateEmp, dureeMax, dateRet, adherents.nom, adherents.prenom FROM biblio.emprunter JOIN adherents ON emprunter.NA = adherents.NA WHERE dateRet [IS](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/comparison-operators.html#operator_is) NULL;

**Les livres actuellement en retard**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) emprunter.NL, oeuvres.titre, dateRet, dateEmp, [current\_date](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/date-and-time-functions.html#function_current_date) FROM emprunter, oeuvres, livres WHERE emprunter.NL = livres.NL [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) livres.NO = oeuvres.NO [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) emprunter.dateRet [is](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/comparison-operators.html#operator_is) NULL [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) ([current\_date](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/date-and-time-functions.html" \l "function_current_date" \t "mysql_doc)) > ([current\_date](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/date-and-time-functions.html" \l "function_current_date" \t "mysql_doc)) + 14;

**les adhérents en retard avec le nombre de livre en retard et la  
moyenne du nombre de jour de retard**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) adherents.NA, adherents.nom, [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/group-by-functions.html#function_count)(\*), [AVG](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/group-by-functions.html#function_avg)(([current\_date](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/date-and-time-functions.html" \l "function_current_date" \t "mysql_doc))-(emprunter.dateRet)-14) AS mon\_retard FROM emprunter, livres, adherents, oeuvres WHERE emprunter.NL = livres.NL [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) emprunter.NA = adherents.NA [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) livres.NO = oeuvres.NO [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) emprunter.dateRet [is](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/comparison-operators.html#operator_is) NULL [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) ([current\_date](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/date-and-time-functions.html" \l "function_current_date" \t "mysql_doc)) > (emprunter.dateEmp) + 14 GROUP BY adherents.NA, adherents.nom;

**Nombre de livres empruntées par auteur.**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) oeuvres.auteur, [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/group-by-functions.html#function_count)(\*) FROM emprunter,livres, oeuvres WHERE emprunter.NL = livres.NL [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_and) livres.NO = oeuvres.NO GROUP BY oeuvres.auteur;

**Nombre de livres empruntés par éditeur**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) livres.editeur, [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/group-by-functions.html#function_count)(\*) FROM emprunter,livres, oeuvres WHERE emprunter.NL = livres.NL GROUP BY livres.editeur;

**Durée moyenne des emprunts rendus. On commencera par afficher les durées  
des emprunts rendus**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) [avg](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/group-by-functions.html#function_avg)((dateEmp)-(dateRet)) FROM emprunter WHERE dateRet [is](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/comparison-operators.html#operator_is) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_not) NULL;

**Durée moyenne des retards pour l’ensemble des emprunts.**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/select.html) [avg](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/group-by-functions.html#function_avg) ((dateRet)-(dateEmp)) FROM emprunter WHERE dateRet [is](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/comparison-operators.html#operator_is) [not](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.7/en/logical-operators.html#operator_not) null;

les livres e LL