Initiate node.js server file

**npm init**

Install express and ejs

**npm i express ejs --save**

**db query**

To show db-> **show databases;**

To create db-> **create database <name>;**

To use db -> **use <name>;**

To create table->

**CREATE TABLE table\_name(column data\_type, primary key (field));**

**CREATE TABLE test(id int UNSIGNED AUTO\_INCREMENT NOT NULL, name varchar(255), is\_real bool, primary key (id));**

To create table with two primary key->

**CREATE TABLE table\_name (**

**column1 data\_type,**

**column2 data\_type,**

**CONSTRAINT PK\_NAME PRIMARY KEY (column1, column2)**

**);**

**CREATE TABLE twoPK(id int UNSIGNED NOT NULL AUTO\_INCREMENT, secondId int UNSIGNED NOT NULL, CONSTRAINT PK\_TwoPK PRIMARY KEY(id,secondId));**

Create table with foreign key->

**CREATE TABLE table\_name(**

**column1 data\_type not null,**

**fk\_column data\_type not null,**

**PRIMARY KEY (column1),**

**FOREIGN KEY (fk\_column) REFERENCES FK\_TABLENAME(PK\_COLUMN)**

**);**

**CREATE TABLE Foreigns(id int UNSIGNED AUTO\_INCREMENT NOT NULL, test\_id int UNSIGNED NOT NULL, randomField varchar(255), PRIMARY KEY(id), FOREIGN KEY(test\_id) REFERENCES test(id));**

To show table->

**show tables;**

To show table column type->

**describe <table\_name>;**

Insert into table->

**INSERT INTO table\_name (column1, column2, column3, ...) VALUES (value1, value2, value3, ...);**

**INSERT INTO test(name,is\_real) VALUES("test",false);**

Insert into foreign table with select statement->

**INSERT INTO table\_name(columns) VALUES((select column from table\_name where column=value),values);**

**INSERT INTO foreigns(test\_id,randomField) VALUES((SELECT id from test where name='test'),'rannsd');**

Select data from table->

**SELECT COLUMNS FROM TABLE\_NAME;**

**SELECT \* FROM test;**

Select data from table from join->

Full join

**SELECT COLUMNS FROM TABLE\_NAME JOIN TABLE\_NAME ON TABLE\_NAME2;**

**select \* from foreigns join test on test.id=foreigns.test\_id;**

Inner join

**SELECT COLUMNS FROM TABLE\_NAME INNER JOIN TABLE\_NAME ON TABLE\_NAME2;**

**select \* from foreigns inner join test on test.id=foreigns.test\_id;**

Left join

**SELECT COLUMNS FROM TABLE\_NAME LEFT JOIN TABLE\_NAME ON TABLE\_NAME2;**

**select \* from foreigns left join test on test.id=foreigns.test\_id;**

Right join

**SELECT COLUMNS FROM TABLE\_NAME RIGHT JOIN TABLE\_NAME ON TABLE\_NAME2;**

**select \* from foreigns right join test on test.id=foreigns.test\_id;**

Group By and Having

**SELECT COLUMNS FROM TABLE\_NAME GROUP BY COLUMN HAVING CONDITION;**

**select Count(\*) as "Entry",test\_id as "id" from foreigns group by test\_id having Entry>0;**

Aggregate function

Count ->

**SELECT COUNT(\*) FROM TABLE\_NAME;**

**SELECT COUNT(\*) FROM test;**

Sum->

**SELECT SUM(COLUMN) FROM TABLE\_NAME;**

Average->

**SELECT AVG(COLUMN) FROM TABLE\_NAME;**

Max->

**SELECT MAX(COLUMN) FROM TABLE\_NAME;**

Min->

**SELECT MIN(COLUMN) FROM TABLE\_NAME;**

DELETE->

**DELETE FROM table\_name WHERE condition;**

**DELETE FROM test WHERE id =1;**