(goal) **Motto in programming:** !!!

DO NOT WRITE SOMETHING TWICE!!

A code to find the center point of a rectangle (box)

( (obj[0]+obj[2])/2,(obj[1]+obj[3])/2 )

If we use more than once!!

12 times we have used

Disadvantages:

CROWDED CODE

IF WE CHANGE SOMETHING, WE NEED TO CHANGE EACH OF THEM

INSTEAD: USE A FUNCTION

**Motto in databases:**

If there is same data/value (especially text!), put it into another TABLE!!!!!

Advantage:

1- Size, (Azerbaijan State University of Economics) 40 characters ==> 4(int)

2- Time, (writing time 40 characters)

3- Most important: **CHANGE**

=VLOOKUP(D3,$University.$A$1:$B$49,2,0)

CREATE TABLE `code`.`customers` (

`customerNumber` INT NOT NULL,

PRIMARY KEY (`customerNumber`));

**USE** `classicmodels`; /\* switchs to database\*/

/\*Table structure for table `customers` \*/

DROP TABLE `customers`; /\* original : DROP = DELETE \*/

DROP TABLE **IF EXISTS** `customers`;

CREATE TABLE `customers` (

`customerNumber` int(11) NOT NULL,

`customerName` varchar(50) NOT NULL,

`contactLastName` varchar(50) NOT NULL,

`contactFirstName` varchar(50) NOT NULL,

`phone` varchar(50) NOT NULL,

`addressLine1` varchar(50) NOT NULL,

`addressLine2` varchar(50) DEFAULT NULL,

`city` varchar(50) NOT NULL,

`state` varchar(50) DEFAULT NULL,

`postalCode` varchar(15) DEFAULT NULL,

`country` varchar(50) NOT NULL,

`salesRepEmployeeNumber` int(11) DEFAULT NULL,

`creditLimit` decimal(10,2) DEFAULT NULL,

PRIMARY KEY (`customerNumber`),

KEY `salesRepEmployeeNumber` (`salesRepEmployeeNumber`),

CONSTRAINT `customers\_ibfk\_1` FOREIGN KEY (`salesRepEmployeeNumber`) REFERENCES `employees` (`employeeNumber`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

insert into `customers`(`customerNumber`,`customerName`,`contactLastName`,`contactFirstName`,`phone`,`addressLine1`,`addressLine2`,`city`,`state`,`postalCode`,`country`,`salesRepEmployeeNumber`,`creditLimit`) values

(103,'Atelier graphique','Schmitt','Carine ','40.32.2555','54, rue Royale',NULL,'Nantes',NULL,'44000','France',1370,'21000.00'),

CREATE TABLE `employees` (

`employeeNumber` int(11) NOT NULL,

`lastName` varchar(50) NOT NULL,

`firstName` varchar(50) NOT NULL,

`extension` varchar(10) NOT NULL,

`email` varchar(100) NOT NULL,

`officeCode` varchar(10) NOT NULL,

`reportsTo` int(11) DEFAULT NULL,

`jobTitle` varchar(50) NOT NULL,

PRIMARY KEY (`employeeNumber`),

KEY `reportsTo` (`reportsTo`),

KEY `officeCode` (`officeCode`),

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

insert into `employees`(`employeeNumber`,`lastName`,`firstName`,`extension`,`email`,`officeCode`,`reportsTo`,`jobTitle`) values

(1002,'Murphy','Diane','x5800','dmurphy@classicmodelcars.com','1',NULL,'President'),

DROP TABLE IF EXISTS `orderdetails`;

CREATE TABLE `orderdetails` (

`orderNumber` int(11) NOT NULL,

`productCode` varchar(15) NOT NULL,

`quantityOrdered` int(11) NOT NULL,

`priceEach` decimal(10,2) NOT NULL,

`orderLineNumber` smallint(6) NOT NULL,

PRIMARY KEY (`orderNumber`,`productCode`),

KEY `productCode` (`productCode`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

DROP TABLE IF EXISTS `orders`;

CREATE TABLE `orders` (

`orderNumber` int(11) NOT NULL,

`orderDate` date NOT NULL,

`requiredDate` date NOT NULL,

`shippedDate` date DEFAULT NULL,

`status` varchar(15) NOT NULL,

`comments` text,

`customerNumber` int(11) NOT NULL,

PRIMARY KEY (`orderNumber`),

KEY `customerNumber` (`customerNumber`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

DROP TABLE IF EXISTS `payments`;

CREATE TABLE `payments` (

`customerNumber` int(11) NOT NULL,

`checkNumber` varchar(50) NOT NULL,

`paymentDate` date NOT NULL,

`amount` decimal(10,2) NOT NULL,

PRIMARY KEY (`customerNumber`,`checkNumber`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;