

I.ODEV

VERITABANI YÖNETİM SİSTEMLERİ

IBRAHİM SAİT KAVAS G191210378

SAKARYA ÜNİVERSİTESİ
Bilgisayar ve Bilişim Bilimleri Fakültesi
II.ÖĞRETİM B GRUBU

\$ W3SCHOOLS.COM \$ hayali veri tabanı tasarımı

İŞ KURALLARI:

Kayıt olan her kullanıcının mail adresi ve parolası mevcuttur.

Kayıtlı Kullanıcıların adları mail adresleri ile aynıdır.

kayıtlı Kullancıılar birbirlerindne kullanıcı adları ile ayırt edilirler.

Her mail adresi sadece 1 kullanıcıya ait olabilir

Her kullanıcnın sadece 1 adet avatarı bulunabiir

Her kullanıcının tutorials, quezers ve exercies bilgileri kayıt edilir.

Her girişe ip adres, tutulup kayıt olunmasa bile fakeuser ile işlemini görebilir

Fake userların bilgileri kayıt altına alınmaz

Ana sayfa Tutorials, examples, references certificates gibi tablera tutulur

Her tutorials tek subjectten oluşur.

Her subjectin en az 1 tutorialsı mevcuttur

Her quizes tek subjecten oluşur.

Her subjectin en az 1 quizi mevcuttur.

Her quizde min 10 soru mevcuttur.

Kayıtlı her kullanıcı 1'den fazla quize girebilir, girmeyedebilir

Kayıtlı her kullanıcı 1'den fazla tutorialsa bakabilir, bakmayadabilir

1 tutorials'a 1'den fazla kullanıcı bakabilir

Kayıtlı her kullanıcı 1'den fazla exsercies ile uğraşabilir, uğraşmayadabilir

Kayıtlı kullanıcılar Quiz, exerciese ve tutorials ilerlemesine göre puan kazanırlar

Bir kullanıcının hiç puanı olmayabilir yada en az 1 puanı olabilir

Her subject tek group içerisinde bulunur

Her groupun en az 1 subjecti mevcuttur

Her subject en az 1 sayfadan oluşur

Her kullanıcı birçok sertifikaya sahip olabilir

Her kullanıcı hiçbir sertifikayada sahip olmayabilir

Her tutorials birden çok içeriğe sahiptir

Her exerciess'i birden fazla kullancın yapabilir

Her exerciess birden çok içeriğe sahiptir

Her quiz birden çok soruya sahiptir

Kayıtlı her kullanıcı birden çok puana sahip olabilir

Bir kullanıcının hiç puanıda olmayabilir

Her ip adresi kullanıcı olmasada tutorialsları görebilir

1 kulllanıcı 1den afzla ip adresi ile giriş yapabilir

Her sertifikayı 1den fazla kullanıcı alabilir

Her girişte İP adresi tutulup Kayıtlı kullanıcı olmayanlara fakeuser ile tablo görülmesi sağlanır

Her kullanıcının toplam puanları mevcuttur

İlişkisel Şema (metinsel gösterim)

Page(Page_id:int NOT NULL,Quizess_id: int ,Exercises_id": int ,Examples_id": int ,References_id": int ,Tutorials_id: int ,pageLeader name:VARCHAR(40),Certificate id":int,note:VARCHAR(200))

Subject (Subject_id:int,Group_id:int,Subject_name:VARCHAR(40),Description:TEXT)

Group(Group_id:INTEGER,Subject_id:INTEGER ,group_name:VARCHAR(40) Description:TEXT)

Tutorials(Tuturials_id:INTEGER,Subject_id:INTEGER,Tutorials_name":VARCHAR(40),tutorials_points":INTEGER,Page_id":INTEGER,Subject_intro":TEXT,Defoult":TEXT,Content":TEXT)

Examples(Examples_id:INTEGER,Page_id":INTEGER ,example_type:VARCHAR(40),Content:T EXT)

Exercises(Exercises_id:INTEGER, Page_id:INTEGER, Subject_id:INTEGER, exercises_name:TEX T, exercises_point":INTEGER, Content:TEXT)

References(Reference_id:INTEGER, Page_id:INTEGER, Subject_id: INTEGER, Reference_name: VARCHAR(40), Content:TEXT)

Quizess(Quizess_id:INTEGER, Subject_id:INTEGER, quiz_points:INTEGER, question_amount:INTEGER)

Register(register_id:INTEGER ,user_id:INTEGER ,register_date:DATE ,email:VARCHAR(50),not e:INTEGER)

 $Certificates (Cerificate_id:INTEGER,Subject_id:INTEGER\ , Certificate_name:VARCHAR(40), price:MONEY,Desciriptions:TEXT)$

User(user_id:INTEGER,email:TEXT,password:vARCHAR(32),quiz_points:NUMERIC,tutorials_p oint:NUMERIC ,exercies_point:NUMERIC ,total_point:NUMERIC,note:TEXT)

IP(ip_adress:INTEGERuser_id:INTEGER,fakeuser:VARCHAR(40),client_name:VARCHAR(40),client_id:INTEGER)

Social Media(Socialmedia id:INTEGER,Socialmedia name:VARCHAR(40))

categories(CategoryID:int(11),CategoryName:varchar(255),Description:varchar(255),Group_id: int(20))

customers(CustomerID:int(11)CustomerName:varchar(255),ContactName:varchar(255)Address:varchar(255),City:varchar(255),PostalCode:varchar(255),Country:varchar(255),Group_id: int(20))

employees(EmployeeID:int(11),LastName:varchar(255),FirstName:varchar(255),BirthDate:date,Ph oto:varchar(255),Notes:text,Group_id: int(20))

orders(OrderID:int(11),CustomerID:int(11),EmployeeID:int(11),OrderDate:date,ShipperID:int(11),Group_id: int(20))

order_details (OrderDetailID:int(11),OrderID:int(11),ProductID:int(11) ,Quantity:int(11),Group_id: int(20))

products

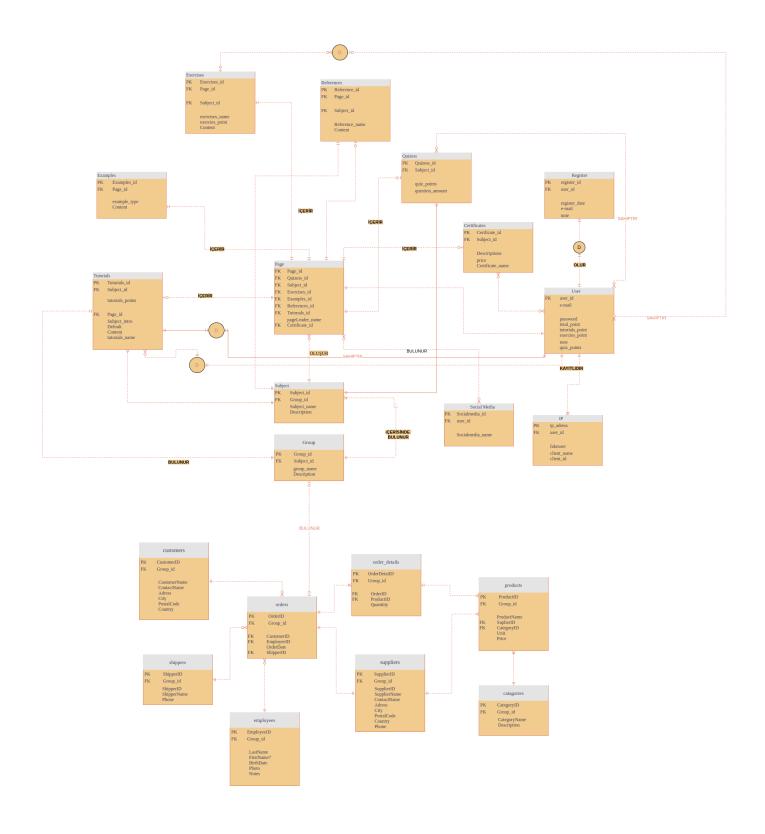
 $(ProductID:int(11), ProductName: varchar(255), SupplierID:int(11), CategoryID:int(11), Unit: varchar(255), Price: Money, Group_id: int(20))$

shippers (ShipperID:int(11),ShipperName:varchar(255),Phone:varchar(255),Group_id: int(20))

suppliers(SupplierID:int(11),SupplierName:varchar(255),ContactName:varchar(255),Address:varchar(255),City:varchar(255),Phone:varchar(255),Grountry:varchar(255),Phone:varchar(255),Grount_int(20))

,

Varlık Bağıntı Modeli:



SQL KODLARI:

```
CREATE DATABASE "W3schoolsDatabase"
ENCODING='UTF-8'
LC_COLLATE='tr_TR.UTF-8'
LC_CTYPE='tr_TR.UTF-8'
OWNER postgres
TEMPLATE=template0;
CREATE SCHEMA "User";
CREATE TABLE "Page" (
      "Page id"
                  SERIAL INTEGER NOT NULL,
      "Subject_id" INTEGER,
      "Quizess id" INTEGER,
      "Exercises_id"
                        INTEGER,
      "Examples_id"
                         INTEGER,
      "References id"
                         INTEGER,
      "Tutorials id" INTEGER,
      "Certificate id"
                         INTEGER,
      "pageLeader_name" VARCHAR(40),
      "note" VARCHAR(200),
      PRIMARY KEY("Page_id"),
      CONSTRAINT "PageFK1" FOREIGN KEY("Quizess_id") REFERENCES
"Quizess"("Quizess_id"),
      CONSTRAINT "PageFK2" FOREIGN KEY("Exercises id") REFERENCES
"Exercises"("Exercises id"),
      CONSTRAINT "PageFK3" FOREIGN KEY("Examples_id") REFERENCES
"Examples"("Examples_id"),
      CONSTRAINT "PageFK4" FOREIGN KEY("References_id") REFERENCES
"References" ("References id"),
      CONSTRAINT "PageFK5" FOREIGN KEY("Tutorials id") REFERENCES
"Tutorials"("Tutorials id"),
      CONSTRAINT "PageFK6" FOREIGN KEY("Certificate id") REFERENCES
"Certificates"("Cerificate_id")
);
INSERT INTO
"Page"("Page_id", "Subject_id", "Quizess_id", "Exercises_id", "Examples_id", "References_id", "Tutor
ials id","pageLeader name","Certificate id","note",)
VALUES ("1","1",,,,,"1",,"Html-Page",,"Html tutorials bilgilerini içeren sayfa"),
```

```
("2","1","2","2","2","2","Html-Page","1","Html-Quizess bilgilerini içeren sayfa"),
("3", "4", "3", "3", "3", "3", "Boostrap3-Page", "20", "Boostrap3 bilgilerini içeren sayfalar"),
("4","17",NULL,NULL,"4",NULL,NULL,"SQL-Page","1","SQL bExamples içeren sayfa"),
("5","11",NULL,"5",NULL,NULL,"C++-Page","1","C++ Exercies bilgilerini içeren sayfa"),
("6", "6", "6", "NULL, NULL, "NULL, "SASS-Page", "NULL, "SASS bilgilerini içeren sayfa"),
("7","NULL,"NULL,""NULL,"NULL,"NULL,"Certifica-Page","1","Certifika bilgilerini
içeren sayfalar");
CREATE TABLE "Subject" (
      "Subject_id" SERIAL INTEGER NOT NULL,
      "Group id" INTEGER NOT NULL,
      "Subject_name"
                          VARCHAR(40) NOT NULL,
      "Description" TEXT NOT NULL,
      PRIMARY KEY("Subject_id"),
      CONSTRAINT "SubjectFK1"" FOREIGN KEY("Group_id") REFERENCES
"Group"("Group_id"),
      CONSTRAINT "SubjectUnique" UNIQUE("Subject_name")
);
INSERT INTO "Subject" ("Subject_id", "Group_id", "Subject_name", "Description")
VALUES ("1","10","HTML","Html konusunun içeren sayfalar"),
    ("2","10","CSS","CSS konusunun içeren sayfalar"),
    ("3","10","JAVASCRİPT","JAVASCRİPT konusunun içeren sayfalar"),
    ("4","20","BOOSTRAP3","BOOSTRAP3 konusunun içeren sayfalar"),
    ("5","20","BOOSTRAP4","BOOSTRAP4 konusunun içeren sayfalar"),
    ("6","20","SASS","SASS konusunun içeren sayfalar"),
    ("7","30","JQUERY","JQUERY konusunun içeren sayfalar"),
    ("8","30","REACT","REACT konusunun içeren sayfalar"),
    ("9","40","PYTHON","PYTHON konusunun içeren sayfalar"),
    ("10","40","JAVA","JAVA konusunun içeren sayfalar"),
    ("11","40","C++","C++ konusunun içeren sayfalar"),
    ("12","40","C#","C# konusunun içeren sayfalar"),
    ("13","40","R","R konusunun içeren sayfalar"),
    ("14", "50", "PHP", "PHP konusunun içeren sayfalar"),
    ("15","50","NODEJS","NODEJS konusunun içeren sayfalar"),
    ("16", "50", "ASP", "ASP konusunun içeren sayfalar"),
    ("17","60","SQL","SQL konusunun içeren sayfalar"),
    ("18","70","DATASCIENCE","DATASCIENCE konusunun içeren sayfalar"),
    ("19","80","XML","XML konusunun içeren sayfalar");
CREATE TABLE "Group" (
      "Group_id"
                   SERIAL INTEGER NOT NULL,
      "Subject_id" INTEGER,
      "group_name" VARCHAR(40) NOT NULL,
      "Description" TEXT NOT NULL,
```

```
PRIMARY KEY("Group id"),
      CONSTRAINT "GroupFK1"" FOREIGN KEY("Subject_id") REFERENCES
"Subject"("Subject_id")
      CONSTRAINT "GroupUnique" UNIQUE("group name")
);
INSERT INTO "Group" ("Group_id", "Subject_id", "group_name", "Description")
VALUES ("10", NULL, "BASIC WEB DEVELOPMENT", "BASIC WEB DEVELOPMENT
Grubu").
   ("20",NULL,"CSS FRAMEWORK","CSS FRAMEWORK grubu"),
   ("30", NULL, "JS FRAMEWORK", "JS FRAMEWORK grubu"),
   ("40",NULL,"PROGRAMMING","PROGRAMMING grubu"),
   ("50", NULL, "SERVER SCRIPTING", "BOOSTRAP4 konusunun içeren sayfalar"),"),
   ("60", NULL, "DATABASE", "SASS konusunun içeren sayfalar"),
   ("70",NULL,"DATA SCIENCE","JQUERY konusunun içeren sayfalar"),
   ("80", NULL, "XML", "REACT konusunun içeren sayfalar");
CREATE TABLE "User". "Tutorials" (
      "Tuturials id" SERIAL INTEGER NOT NULL,
      "Subject_id" INTEGER NOT NULL,
      "tutorials name"
                         VARCHAR(40) NOT NULL.
      "tutorials_points"
                         INTEGER DEFAULT 0.
      "Page id"
                   INTEGER NOT NULL,
      "Subject_intro"
                         TEXT NOT NULL,
      "Defoult"
                   TEXT NOT NULL,
      "Content"
                   TEXT NOT NULL,
      PRIMARY KEY("Tuturials_id"),
      CONSTRAINT "TutorialsFK1"" FOREIGN KEY("Subject_id") REFERENCES
"Subject"("Subject_id"),
      CONSTRAINT "TutorialsFK2"" FOREIGN KEY("Page_id") REFERENCES
"Page"("Page_id"),
      ON DELETE CASCADE,
      ON UPDATE CASCADE
);
INSERT INTO
"User"."Tutorials"("Tuturials_id", "Subject_id", "tutorials_name", "tutorials_points", "Page_id", "Subj
ect_intro","Defoult","Content")
VALUES ("1","1","HTML","BASIC WEB DEVELOPMENT Grubu",,"101","HTML is the
standard markup language for creating Web pages.",
    "With our "Try it Yourself" editor, you can edit the HTML code and view the result", "Aasda"),
   ("2","1","HTML-EDITORS",,"102","Web pages can be created and modified by using
professional HTML editors",
    "A simple text editor is all you need to learn HTML.". "sadsad"),
   ("3","2","CSS",,"103","CSS is the language we use to style an HTML document.","What is
CSS?", "asdasd"),
   ("4","2","CSS-Syntax",,"104","A CSS rule-set consists of a selector and a declaration block",
    "The selector points to the HTML element you want to style.", "asdasd"),
   ("5","7","JQUERY",,"105","jQuery is a JavaScript Library.",
```

```
"¡Query is a JavaScript Library.", "asdasd"),
   ("6","7","JQUERY-DOM-SET",,"106","jQuery - Set Content and Attributes","Set Content -
text(), html(), and val()", "asdasd"),
CREATE TABLE "Examples" (
      "Examples_id"
                         SERIAL INTEGER NOT NULL,
      "Page_id" INTEGER NOT NULL,
      "example_type"
                         VARCHAR(40) NOT NULL,
      "Content"
                   TEXT NOT NULL,
      PRIMARY KEY("Examples_id"),
      CONSTRAINT "ExamplesFK1"" FOREIGN KEY("Page_id") REFERENCES
"Page"("Page_id"),
);
INSERT INTO "Examples" ("Examples_id", "Page_id", "example_type", "Content")
VALUES ("1","201","HTML Basic","<!DOCTYPE html>
<html>
<body>
<h1>My First Heading</h1>
My first paragraph.
</body>
</html>"),
    ("2","202","HTML Attributes","<!DOCTYPE html>
<html>
<body>
<h2>The href Attribute</h2>
HTML links are defined with the a tag. The link address is specified in the href attribute:
<a href="https://www.w3schools.com">Visit W3Schools</a>
</body>
</html>
"),
    ("3","204","JavaScript Examples","<!DOCTYPE html>
<html>
<head>
<script>
function myFunction() {
 document.getElementById("demo").innerHTML = "Paragraph changed.";
</script>
</head>
```

```
<h2>JavaScript in Head</h2>
A Paragraph.
<button type="button" onclick="myFunction()">Try it</button>
</body>
</html> ");
    ("4","220","Python Examples","asdasdas");
CREATE TABLE "User". "Exercises" (
      "Exercises id"
                         SERIAL INTEGER NOT NULL,
      "Page_id"
                  INTEGER NOT NULL,
      "Subject_id" INTEGER NOT NULL,
      "exercises_name"
                         TEXT NOT NULL,
      "exercies_point"
                         INTEGER DEFAULT 0,
      "Content"
                   TEXT NOT NULL,
      PRIMARY KEY("Exercises_id"),
      CONSTRAINT "ExercisesFK1" FOREIGN KEY("Page id") REFERENCES
"Page"("Page_id"),
      CONSTRAINT "ExercisesFK2" FOREIGN KEY("Subject_id") REFERENCES
"Subject"("Subject_id"),
      CONSTRAINT "Exercises Unique" UNIQUE ("exercises_name")
);
INSERT INTO
"User"."Exercises"("Exercises_id", "Page_id", "Subject_id", "exercises_name", "exercies_point", "Con
VALUES ("1","301","1","HTML Attributes",,"Add a tooltip to the paragraph below with the text
About W3Schools"),
    ("2","302","17","SQL SELLECT",,"Insert the missing statement to get all the columns from
the Customers table."),
    ("15","303","11","C++ Syntax",,"Insert the missing part of the code below to output Hello
World!"),
    ("20", "304", "4", "Boostrap3Panels", "Create a basic (default) Bootstrap Panel with the words:
Hello World"),
CREATE TABLE "References" (
                         SERIAL INTEGER NOT NULL,
      "Reference_id"
      "Page id"
                  INTEGER NOT NULL,
      "Subject id" INTEGER NOT NULL,
      "Reference_name"
                         VARCHAR(40) NOT NULL,
      "Content"
                   TEXT NOT NULL,
      PRIMARY KEY("Reference_id"),
```

<body>

```
CONSTRAINT "ReferencesFK1" FOREIGN KEY("Page id") REFERENCES
"Page"("Page_id"),
      CONSTRAINT "ReferencesFK2" FOREIGN KEY("Subject_id") REFERENCES
"Subject"("Subject id")
      CONSTRAINT "ReferencesUnique" UNIQUE("Reference_name")
);
INSERT INTO "References" ("Reference_id", "Page_id", "Subject_id", "Reference_name", "Content")
VALUES ("1","401","1","HTML Reference",,"HTML has the ability to let events trigger actions in
a browser, like starting a JavaScript when a user clicks on an element."),
VALUES ("2","402","19","XML Reference",,"The DOM presents a document as a hierarchy of
node objects."),
VALUES ("3","403","1","PHP Reference",,"This section contains a complete PHP reference
documentation.");
CREATE TABLE "User"."Quizess" (
      "Quizess id" SERIAL INTEGER NOT NULL,
      "Subject_id" INTEGER NOT NULL,
      "quiz points" INTEGER DEFAULT 0,
      "question_amount" INTEGER NOT NULL,
      PRIMARY KEY("Quizess_id")
      CONSTRAINT "QuizessFK1" FOREIGN KEY("Subject_id") REFERENCES
"Subject"("Subject_id")
);
INSERT INTO "User". "Quizess_id", "Subject_id", "quiz_points", "question_amount",)
VALUES ('1','1',,"25"),
    ('1','2',,"20"),
    ('1','10',,"10"),
    ('1','11',,"17"),
    ('1','12',,"18"),
CREATE TABLE "User". "Register" (
      "register id" SERIAL INTEGER NOT NULL,
      "user id"
                   INTEGER NOT NULL,
      "register date"
                         DATE NOT NULL,
      "e-mail"
                   VARCHAR(50) NOT NULL,
      "note" INTEGER.
      PRIMARY KEY("register_id"),
      CONSTRAINT "RegisterFK1" FOREIGN KEY("user_id") REFERENCES
"User"("user_id")
      CONSTRAINT "RegisterUnique" UNIQUE("e-mail")
);
```

```
VALUES ("1","1","10/10/2020","asdq@gmail.com"."Kaydolan ilk kullanıcı"),
    ("2","2","27/05/2009","ibra@gmail.com"."Kaydolan 2 kullanıcı"),
    ("3","3","20/10/2020","asdaaq@gmail.com"."Kaydolan 3. kullanıcı"),
    ("4","4","10/11/2020","asaaaasad1dq@gmail.com"."Kaydolan 4. kullanıcı"),
    ("5","5","10/10/2020","asadsd111dq@gmail.com"."Kaydolan 5. kullanıcı"),
    ("6","6","03/10/2020","asadsad11dq@gmail.com"."Kaydolan 6. kullanıcı"),
CREATE TABLE "Certificates" (
  "Cerificate_id"
                    SERIAL INTEGER NOT NULL,
      "Subject_id" INTEGER,
      "Certificate name"
                         VARCHAR(40) NOT NULL,
  "price"
             MONEY NOT NULL,
  "Desciriptions"
                   TEXT,
      PRIMARY KEY("Cerificate_id"),
      CONSTRAINT "CertificatesFK1" FOREIGN KEY("Subject_id") REFERENCES
"Subject"("Subject_id")
);
INSERT INTO
"Cerificates"("Cerificate_id", "Subject_id", "Certificate_name", "price", "Desciriptions",)
VALUES ("1","1","HTML Certificate"."95.00","HTML Sertifikası"),
    ("1","2","CSS Certificate"."85.00","CSS Sertifikası"),
    ("1", "3", "JS Certificate". "90.00", "JS Sertifikası"),
    ("1","9","PYTHON Certificate"."95.00","PYTHON Sertifikası"),
    ("1","5","BOOSTRAP4 Certificate"."95.00","BOOSTRAP4 Sertifikası"),
    ("1","19","XML Certificate"."95.00","XML Sertifikası"),
    ("1",,"Career CV"."95.00","CV Hazırlama Taktikleri");
CREATE TABLE "User". "User" (
       "user id"
                   SERIAL INTEGER NOT NULL,
      "e-mail"
                   TEXT NOT NULL,
                   vARCHAR(32) NOT NULL,
      "password"
       "quiz points" NUMERIC,
      "tutorials_point"
                          NUMERIC,
      "exercies point"
                          NUMERIC,
      "total_point" NUMERIC DEFAULT 0,
      "note" TEXT.
      PRIMARY KEY("user_id"),
      ON DELETE CASCADE,
      ON UPDATE CASCADE
);
```

INSERT INTO "User"."User"("register_id","user_id","register_date","e-mail","note")

```
ALTER TABLE "User". "User"
      ADD CONSTRAINT "tutorials_point" REFERENCES "User"."Tutorials"
("tutorials_point")
      ADD CONSTRAINT "exercies point" REFERENCES "User". "Exercies" ("exercies point")
      ADD CONSTRAINT "quiz_points" REFERENCES "User"."Quizess" ("quiz_points")
      ON DELETE CASCADE
      ON UPDATE CASCADE:
ALTER TABLE "User". "User"
      ADD CONSTRAINT "tutorials_point" REFERENCES "User". "Register" ("e-mail")
      ON DELETE CASCADE
      ON UPDATE CASCADE:
INSERT INTO "User". "User" ("user_id", "e-
mail", "password", "quiz_points", "tutorials_point", "exercies_point", "total_point", "note",)
VALUES ('1', 'asd@gmail.com', 'asdasd',
currval("User"."Quizess_quiz_points_seq"),
currval("User"."Tutorials_tutorials_point_seq"),
currval("User"."Exercies_exercies_point_seq"));
CREATE TABLE "IP" (
      "ip_adress" INTEGER NOT NULL,
      "user_id"
                   INTEGER,
      "fakeuser"
                   byte,
      "client_name" VARCHAR(40) NOT NULL,
      "client_id"
                   INTEGER NOT NULL,
      PRIMARY KEY("ip_adress"),
      CONSTRAINT "IPFK1" FOREIGN KEY("user_id") REFERENCES "User"("user_id")
);
INSERT INTO "IP"("ip_adress","user_id","fakeuser","client_name","client_id")
VALUES ('192.168.1.5','1',","1","Lenova-123p","4"),
    ('122.589.456','10',"0","Monster232k",132),,
    ('12.255.255.0','20',"0","AsusZC21","54");
CREATE TABLE "Social Media" (
      "Socialmedia id"
                          INTEGER NOT NULL,
      "Socialmedia_name" VARCHAR(40),
      PRIMARY KEY("Socialmedia_id")
);
INSERT INTO "Social Media" ("Socialmedia_id", "Socialmedia_name", "note",)
VALUES ('1','1','FACEBOOK',"https://www.facebook.com/w3schoolscom/"),
    ('2','instagram',"https://www.instagram.com/w3schools.com_official/"),
    ('3','LİNKEDİN',"https://www.linkedin.com/company/w3schools.com/");
```

```
CREATE TABLE "categories" (
 `CategoryID` int(11) NOT NULL,
 `CategoryName` varchar(255) DEFAULT NULL,
 'Description' varchar(255) DEFAULT NULL,
 "Group_id" int(20) DEFAULT NULL
);
INSERT INTO `categories` (`CategoryID`, `CategoryName`, `Description`,"Group_id")
VALUES(1, 'Beverages', 'Soft drinks, coffees, teas, beers, and ales', "60"),
    (2, 'Condiments', 'Sweet and savory sauces, relishes, spreads, and seasonings', "60"),
    (3, 'Confections', 'Desserts, candies, and sweet breads', "60"),
    (4, 'Dairy Products', 'Cheeses', "60"),
    (5, 'Grains/Cereals', 'Breads, crackers, pasta, and cereal', "60"),
    (6, 'Meat/Poultry', 'Prepared meats', "60"),
    (7, 'Produce', 'Dried fruit and bean curd', "60"),
    (8, 'Seafood', 'Seaweed and fish',"60");
ALTER TABLE `categories`
 ADD PRIMARY KEY (`CategoryID`),
 CONSTRAINT "CATEGORIESFK1" FOREIGN KEY("Group_id") REFERENCES
"Group"("Group_id");
  -----
CREATE TABLE `customers` (
 `CustomerID` int(11) NOT NULL,
 `CustomerName` varchar(255) DEFAULT NULL,
 `ContactName` varchar(255) DEFAULT NULL,
 `Address` varchar(255) DEFAULT NULL,
 `City` varchar(255) DEFAULT NULL,
 `PostalCode` varchar(255) DEFAULT NULL.
 `Country` varchar(255) DEFAULT NULL
 "Group id" int(20) DEFAULT NULL
);
INSERT INTO `customers` (`CustomerID`, `CustomerName`, `ContactName`, `Address`, `City`,
`PostalCode`, `Country`, "Group_id")
VALUES
(1, 'Alfreds Futterkiste', 'Maria Anders', 'Obere Str. 57', 'Berlin', '12209', 'Germany',"60"),
(2, 'Ana Trujillo Emparedados y helados', 'Ana Trujillo', 'Avda. de la Constitución 2222', 'México
D.F.', '05021', 'Mexico',"60"),
(3, 'Antonio Moreno Taquería', 'Antonio Moreno', 'Mataderos 2312', 'México D.F.', '05023',
'Mexico', "60"),
(4, 'Around the Horn', 'Thomas Hardy', '120 Hanover Sq.', 'London', 'WA1 1DP', 'UK', "60"),
(5, 'Berglunds snabbköp', 'Christina Berglund', 'Berguvsvägen 8', 'Luleå', 'S-958 22', 'Sweden', "60"),
```

(6, 'Blauer See Delikatessen', 'Hanna Moos', 'Forsterstr. 57', 'Mannheim', '68306', 'Germany', "60"), (7, 'Blondel père et fîls', 'Frédérique Citeaux', '24, place Kléber', 'Strasbourg', '67000', 'France', "60"),

```
(8, 'Bólido Comidas preparadas', 'Martín Sommer', 'C/ Araquil, 67', 'Madrid', '28023', 'Spain', "60"),
(9, 'Bon app\', 'Laurence Lebihans', '12, rue des Bouchers', 'Marseille', '13008', 'France', "60");
ALTER TABLE `customers`
 ADD PRIMARY KEY (`CustomerID`),
 CONSTRAINT "customersFK1" FOREIGN KEY("Group_id") REFERENCES
"Group"("Group_id");
CREATE TABLE "employees" (
 `EmployeeID` int(11) NOT NULL,
 `LastName` varchar(255) DEFAULT NULL,
 `FirstName` varchar(255) DEFAULT NULL,
 `BirthDate` date DEFAULT NULL,
 'Photo' varchar(255) DEFAULT NULL,
 'Notes' text
 "Group_id" int(20) DEFAULT NULL
);
ALTER TABLE 'employees'
 ADD PRIMARY KEY (`EmployeeID`);
INSERT INTO 'employees' ('EmployeeID', 'LastName', 'FirstName', 'BirthDate', 'Photo',
'Notes') VALUES
(1, 'Davolio', 'Nancy', '1968-12-08', 'EmpID1.pic', 'Education includes a BA in psychology from
Colorado State University. She also completed (The Art of the Cold Call). Nancy is a member of
\'Toastmasters International\'.'),
(2, 'Fuller', 'Andrew', '1952-02-19', 'EmpID2.pic', 'Andrew received his BTS commercial and a
Ph.D. in international marketing from the University of Dallas. He is fluent in French and Italian
and reads German. He joined the company as a sales representative, was promoted to sales manager
and was then named vice president of sales. Andrew is a member of the Sales Management
Roundtable, the Seattle Chamber of Commerce, and the Pacific Rim Importers Association.'),
(3, 'Leverling', 'Janet', '1963-08-30', 'EmpID3.pic', 'Janet has a BS degree in chemistry from Boston
College). She has also completed a certificate program in food retailing management. Janet was
hired as a sales associate and was promoted to sales representative.'),
(4, 'Peacock', 'Margaret', '1958-09-19', 'EmpID4.pic', 'Margaret holds a BA in English literature
from Concordia College and an MA from the American Institute of Culinary Arts. She was
temporarily assigned to the London office before returning to her permanent post in Seattle.'),
(5, 'Buchanan', 'Steven', '1955-03-04', 'EmpID5.pic', 'Steven Buchanan graduated from St. Andrews
University, Scotland, with a BSC degree. Upon joining the company as a sales representative, he
spent 6 months in an orientation program at the Seattle office and then returned to his permanent
post in London, where he was promoted to sales manager. Mr. Buchanan has completed the courses
\'Successful Telemarketing\' and \'International Sales Management\'. He is fluent in French.');
```

CREATE TABLE `orders` (

[`]OrderID` int(11) NOT NULL,

[`]CustomerID` int(11) DEFAULT NULL,

```
`EmployeeID` int(11) DEFAULT NULL,
 `OrderDate` date DEFAULT NULL,
 `ShipperID` int(11) DEFAULT NULL
 "Group id" int(20) DEFAULT NULL
);
INSERT INTO `orders` (`OrderID`, `CustomerID`, `EmployeeID`, `OrderDate`,
`ShipperID`,"Group id") VALUES
(10248, 90, 5, '1996-07-04', 3, ''60''),
(10249, 81, 6, '1996-07-05', 1, "60"),
(10250, 34, 4, '1996-07-08', 2, ''60''),
(10251, 84, 3, '1996-07-08', 1, "60"),
(10252, 76, 4, '1996-07-09', 2, ''60''),
(10253, 34, 3, '1996-07-10', 2, ''60''),
(10254, 14, 5, '1996-07-11', 2, "60"),
(10255, 68, 9, '1996-07-12', 3, "60"),
(10256, 88, 3, '1996-07-15', 2, "60"),
(10257, 35, 4, '1996-07-16', 3, ''60''),
(10258, 20, 1, '1996-07-17', 1, "60"),
(10259, 13, 4, '1996-07-18', 3, "60"),
(10260, 55, 4, '1996-07-19', 1, "60");
ALTER TABLE `orders`
 ADD PRIMARY KEY ('OrderID'),
 ADD KEY `CustomerID` (`CustomerID`),
 ADD KEY `EmployeeID` (`EmployeeID`),
 ADD KEY `ShipperID` (`ShipperID`);
ALTER TABLE `orders`
 ADD CONSTRAINT `orders_ibfk_1` FOREIGN KEY (`CustomerID`) REFERENCES
`customers` (`CustomerID`),
 ADD CONSTRAINT `orders_ibfk_2` FOREIGN KEY (`EmployeeID`) REFERENCES
`employees` (`EmployeeID`),
 ADD CONSTRAINT `orders_ibfk_3` FOREIGN KEY (`ShipperID`) REFERENCES `shippers`
(`ShipperID`)
CREATE TABLE "order_details" (
 `OrderDetailID` int(11) NOT NULL,
 `OrderID` int(11) DEFAULT NULL,
 `ProductID` int(11) DEFAULT NULL,
 'Quantity' int(11) DEFAULT NULL,
 "Group_id" int(20) DEFAULT NULL
);
INSERT INTO `order details` (`OrderDetailID`, `OrderID`, `ProductID`, `Quantity`, "Group id")
VALUES
(1, 10248, 11, 12,60),
(2, 10248, 42, 10,60),
(3, 10248, 72, 5,60),
(4, 10249, 14, 9,60),
```

```
(5, 10249, 51, 40,60),
(6, 10250, 41, 10,60),
(7, 10250, 51, 35, 60),
(8, 10250, 65, 15,60),
(9, 10251, 22, 6,60);
ALTER TABLE `order_details`
 ADD PRIMARY KEY ('OrderDetailID'),
 ADD KEY 'OrderID' ('OrderID'),
 ADD KEY `ProductID` (`ProductID`);
ALTER TABLE `order details`
 ADD CONSTRAINT 'order details ibfk 1' FOREIGN KEY ('OrderID') REFERENCES
`orders` (`OrderID`),
 ADD CONSTRAINT `order_details_ibfk_2` FOREIGN KEY (`ProductID`) REFERENCES
`products` (`ProductID`);
CREATE TABLE 'products' (
 `ProductID` int(11) NOT NULL,
 `ProductName` varchar(255) DEFAULT NULL,
 `SupplierID` int(11) DEFAULT NULL,
 `CategoryID` int(11) DEFAULT NULL,
 'Unit' varchar(255) DEFAULT NULL,
 'Price' double DEFAULT NULL,
 "Group_id" int(20) DEFAULT NULL
);
INSERT INTO 'products' ('ProductID', 'ProductName', 'SupplierID', 'CategoryID', 'Unit',
'Price') VALUES
(1, 'Chais', 1, 1, '10 boxes x 20 bags', 18),
(2, 'Chang', 1, 1, '24 - 12 oz bottles', 19),
(3, 'Aniseed Syrup', 1, 2, '12 - 550 ml bottles', 10),
(4, 'Chef Anton\'s Cajun Seasoning', 2, 2, '48 - 6 oz jars', 22),
(5, 'Chef Anton\'s Gumbo Mix', 2, 2, '36 boxes', 21.35);
ALTER TABLE `products`
 ADD PRIMARY KEY (`ProductID`),
 ADD KEY `CategoryID` (`CategoryID`),
 ADD KEY `SupplierID` (`SupplierID`);
ALTER TABLE `products`
 ADD CONSTRAINT `products ibfk 1` FOREIGN KEY (`CategoryID`) REFERENCES
`categories` (`CategoryID`),
 ADD CONSTRAINT `products_ibfk_2` FOREIGN KEY (`SupplierID`) REFERENCES
`suppliers` (`SupplierID`);
COMMIT;
```

```
CREATE TABLE `shippers` (
 `ShipperID` int(11) NOT NULL,
 `ShipperName` varchar(255) DEFAULT NULL,
 `Phone` varchar(255) DEFAULT NULL,
 "Group id" int(20) DEFAULT NULL
INSERT INTO 'shippers' ('ShipperID', 'ShipperName', 'Phone') VALUES
(1, 'Speedy Express', '(503) 555-9831'),
(2, 'United Package', '(503) 555-3199'),
(3, 'Federal Shipping', '(503) 555-9931');
ALTER TABLE `shippers`
 ADD PRIMARY KEY (`ShipperID`);
CREATE TABLE `suppliers` (
 `SupplierID` int(11) NOT NULL,
 `SupplierName` varchar(255) DEFAULT NULL,
 `ContactName` varchar(255) DEFAULT NULL,
 `Address` varchar(255) DEFAULT NULL,
 'City' varchar(255) DEFAULT NULL,
 `PostalCode` varchar(255) DEFAULT NULL,
 `Country` varchar(255) DEFAULT NULL,
 `Phone` varchar(255) DEFAULT NULL,
 "Group_id" int(20) DEFAULT NULL
INSERT INTO 'suppliers' ('SupplierID', 'SupplierName', 'ContactName', 'Address', 'City',
`PostalCode`, `Country`, `Phone`, "Group_id")
VALUES
(1, 'Exotic Liquid', 'Charlotte Cooper', '49 Gilbert St.', 'Londona', 'EC1 4SD', 'UK', '(171) 555-
2222',"60"),
(2, 'New Orleans Cajun Delights', 'Shelley Burke', 'P.O. Box 78934', 'New Orleans', '70117', 'USA',
'(100) 555-4822',"60"),
(3, 'Grandma Kellys Homestead', 'Regina Murphy', '707 Oxford Rd.', 'Ann Arbor', '48104', 'USA',
'(313) 555-5735',"60"),
(4, 'Tokyo Traders', 'Yoshi Nagase', '9-8 Sekimai Musashino-shi', 'Tokyo', '100', 'Japan', '(03) 3555-
5011',"60");
ALTER TABLE `suppliers`
 ADD PRIMARY KEY (`SupplierID`);
```