

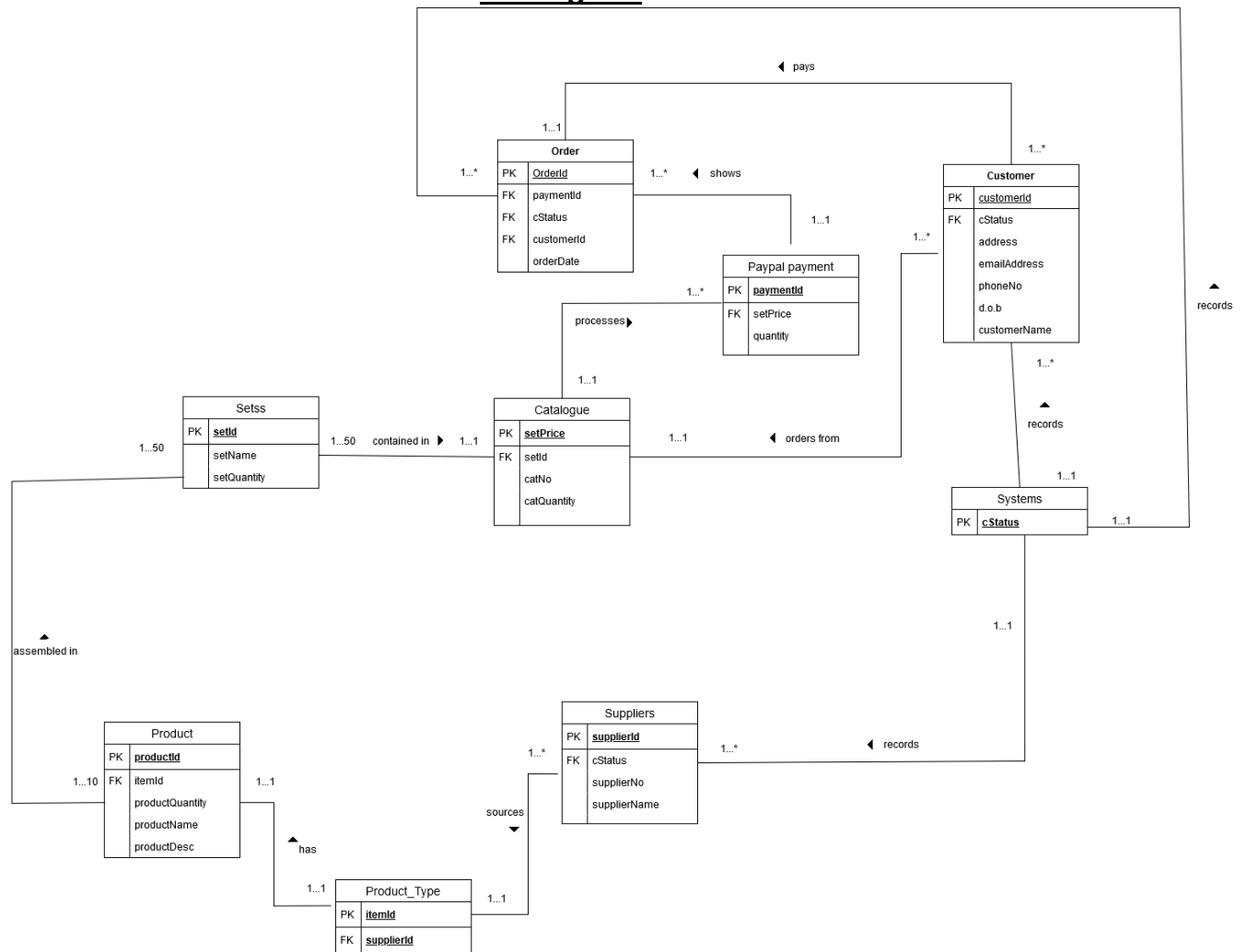
4COSC003W.Y Computer Science Practice

Coursework 2

Name: Vasileios Protopapas

Student ID: W1735144

ER diagram



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Rationale for ER Diagram

Entity	Primary Key (PK)	Foreign Key (FK)	Rationale for PK
Product	productId	itemId	productId will show the specific type of product chosen from the previous linked entity
Product_Type	itemId	supplierId	itemId is unique to each product sourced by the supplier
Catalogue	catNo	setId, setNo, setName, setQuantity	catNo is a link entity with all of parent PKs and FKs for the sets entity as it includes all the data from it
Customer	customerId	cStatus	customerId is unique for each customer with the system entity inheriting the status FK
Suppliers	supplierId	cStatus	supplierId is unique for each supplier with the system entity inheriting the status FK
Systems	cStatus	N/a	cStatus is unique to each customer and supplier
Order	orderId	customerId, status	orderId will help the system entity with identifying each customer with the inherited customerId FK
Paypal Payment	paymentId	setPrice	paymentId will be unique for each customer FK and will specify for the order entity the products selected from the catalogues FK setPrice
Sets	setId	N/A	setId is unique to each set sold

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SQL Script

Customer

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	customerId	int(2)			No	None			Change Drop More
2	cStatus	varchar(20)	utf8_bin		No	None			Change Drop More
3	address	varchar(20)	utf8_bin		Yes	NULL			Change Drop More
4	customerName	varchar(30)	utf8_bin		Yes	NULL			Change Drop More
5	phoneNo	varchar(20)	utf8_bin		Yes	NULL			Change Drop More
6	dob	varchar(20)	utf8_bin		Yes	NULL			Change Drop More
7	emailAddress	varchar(20)	utf8_bin		Yes	NULL			Change Drop More

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	customerId	0	A	No	
Edit Drop	fk_Customer_cStatus	BTREE	No	No	cStatus	0	A	No	

CREATE TABLE Customer

(

customerId INTEGER(2),

cStatus VARCHAR(20) NOT NULL,

address VARCHAR(20),

customerName VARCHAR(30),

phoneNo VARCHAR(20),

dob VARCHAR(20),

emailAddress VARCHAR(20),

CONSTRAINT pk_customer_customerId PRIMARY KEY (customerId),

CONSTRAINT fk_Customer_cStatus FOREIGN KEY (cStatus) REFERENCES Systems

(cStatus)

);

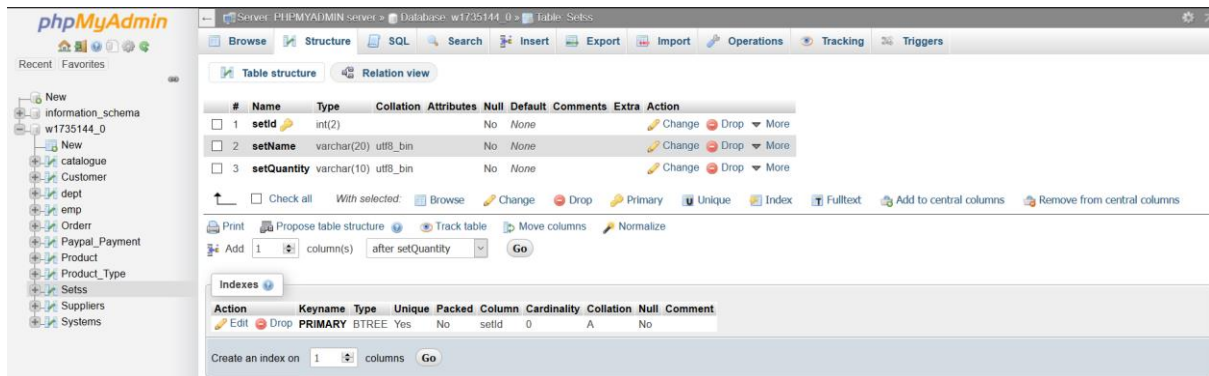
Sets

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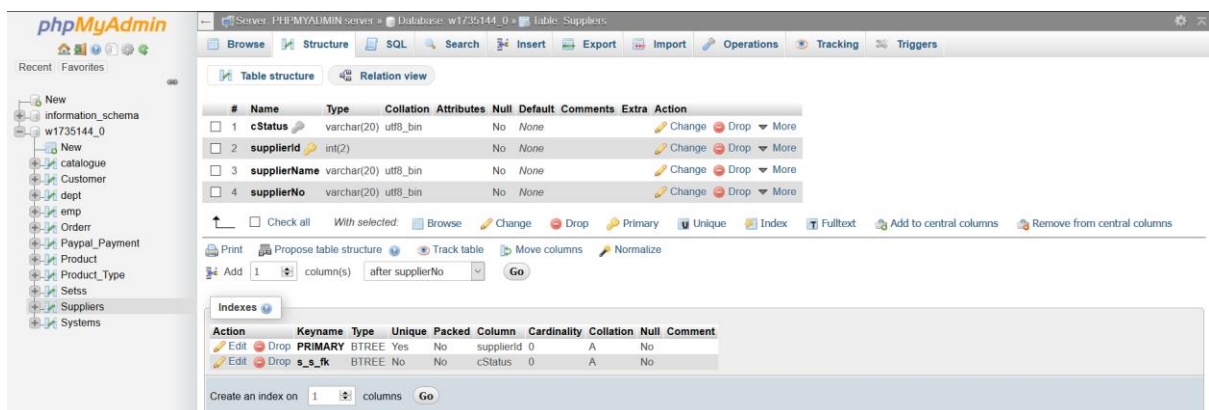
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CREATE TABLE Setss

```
(
    setId          INTEGER(2),
    setName        VARCHAR(20) NOT NULL,
    setQuantity    VARCHAR(10) NOT NULL,
    CONSTRAINT s_id_pk PRIMARY KEY (setId)
);
```

Suppliers



CREATE TABLE Suppliers

```
(
    cStatus        VARCHAR(20) NOT NULL,
    supplierId     INTEGER(2),
    supplierName   VARCHAR(20) NOT NULL,
    supplierNo     VARCHAR(20) NOT NULL,
```

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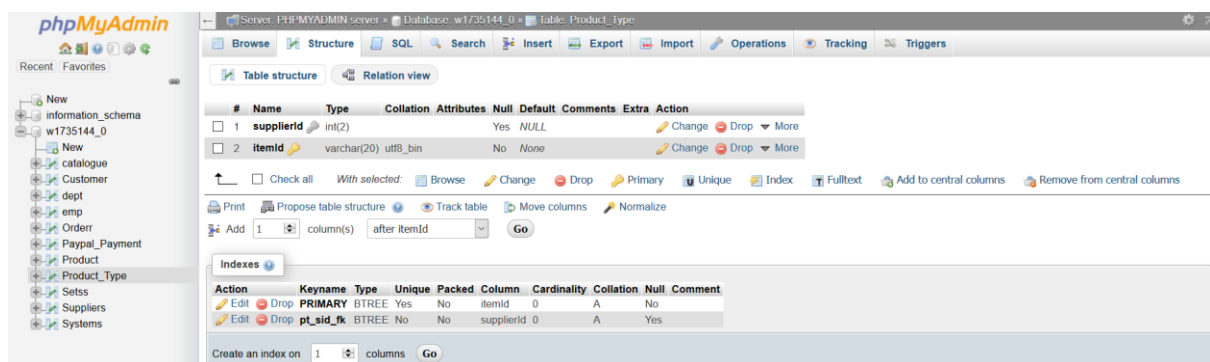
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CONSTRAINT s_sid_pk PRIMARY KEY (supplierId),

CONSTRAINT s_s_fk FOREIGN KEY (cStatus) REFERENCES Systems (cStatus)

);

Product Type



CREATE TABLE Product_Type

(

supplierId INTEGER(2),

itemId VARCHAR(20) NOT NULL,

CONSTRAINT pt_iid_pk PRIMARY KEY (itemId),

CONSTRAINT pt_sid_fk FOREIGN KEY (supplierId) REFERENCES Suppliers

(supplierId)

);

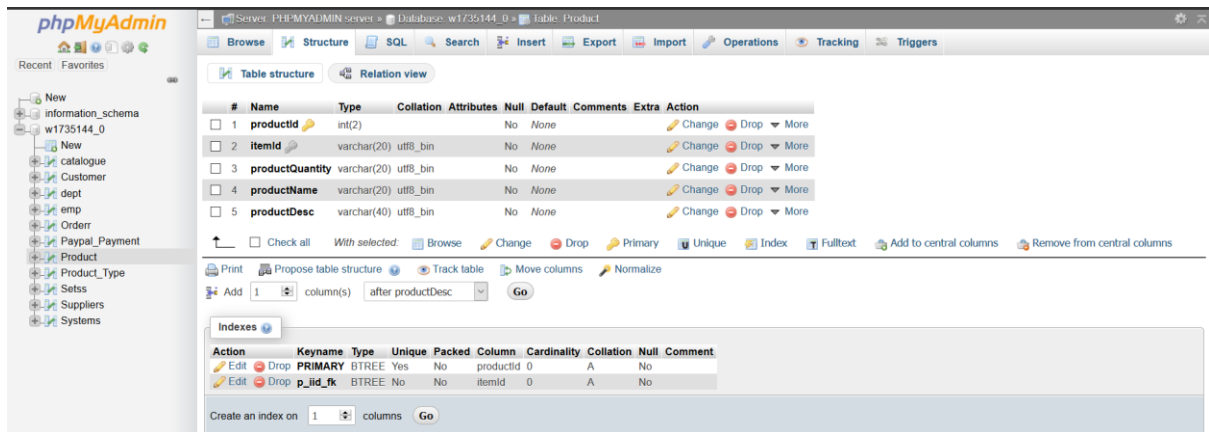
Product

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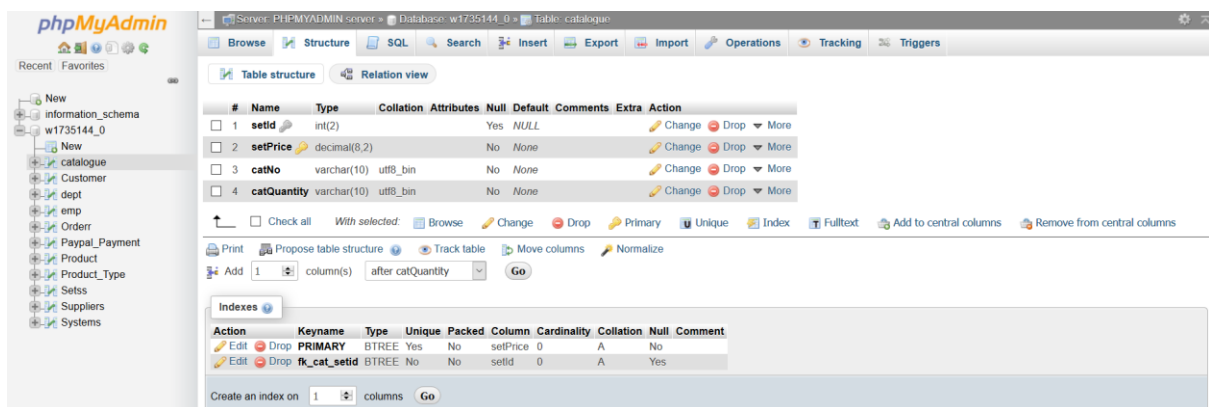
CREATE TABLE Product

(

productId INTEGER(2),
itemId VARCHAR(20) NOT NULL,
productQuantity VARCHAR(20) NOT NULL,
productName VARCHAR(20) NOT NULL,
productDesc VARCHAR(40) NOT NULL,
CONSTRAINT p_sid_pk PRIMARY KEY (productId),
CONSTRAINT p_iid_fk FOREIGN KEY (itemId) REFERENCES Product_Type (itemId)

);

Catalogue



CREATE TABLE catalogue

(

setId INTEGER(2),
setPrice DECIMAL(8,2),

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catNo VARCHAR(10) NOT NULL,

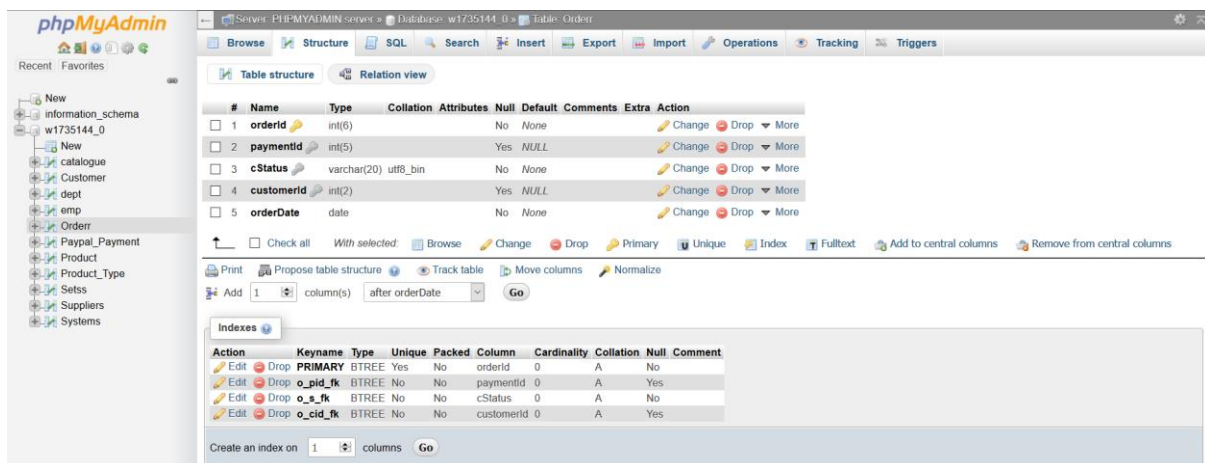
catQuantity VARCHAR(10) NOT NULL,

CONSTRAINT pk_cat_setPrice PRIMARY KEY (setPrice),

CONSTRAINT fk_cat_setid FOREIGN KEY (setId) REFERENCES Setss (setId)

);

Order



CREATE TABLE Orderr

(

orderid INTEGER(6),

paymentId INTEGER(5),

cStatus VARCHAR(20) NOT NULL,

customerId INTEGER(2),

orderDate DATE NOT NULL,

CONSTRAINT o_oid_pk PRIMARY KEY (orderid),

CONSTRAINT o_pid_fk FOREIGN KEY (paymentId) REFERENCES

Paypal_Payment(paymentId),

CONSTRAINT o_s_fk FOREIGN KEY (cStatus) REFERENCES Systems (cstatus),

CONSTRAINT o_cid_fk FOREIGN KEY (customerId) REFERENCES Customer

(customerId)

);

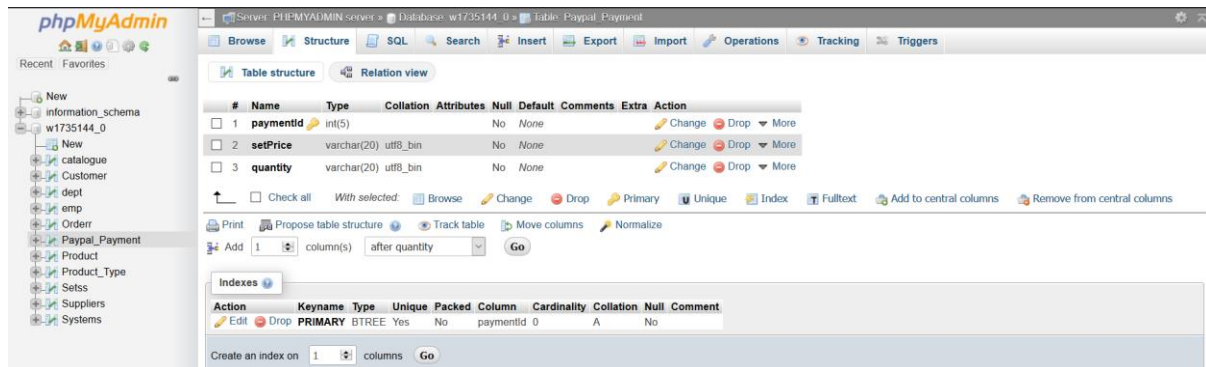
Paypal Payment

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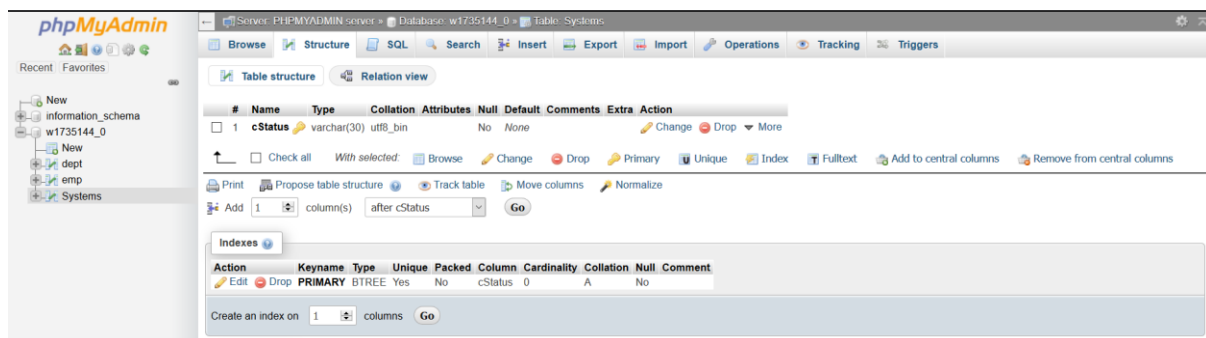
CREATE TABLE Paypal_Payment

(

paymentId INTEGER(5),
setPrice VARCHAR(20) NOT NULL,
quantity VARCHAR(20) NOT NULL,
CONSTRAINT pp_pid_pk PRIMARY KEY (paymentId)

);

System



CREATE TABLE Systems

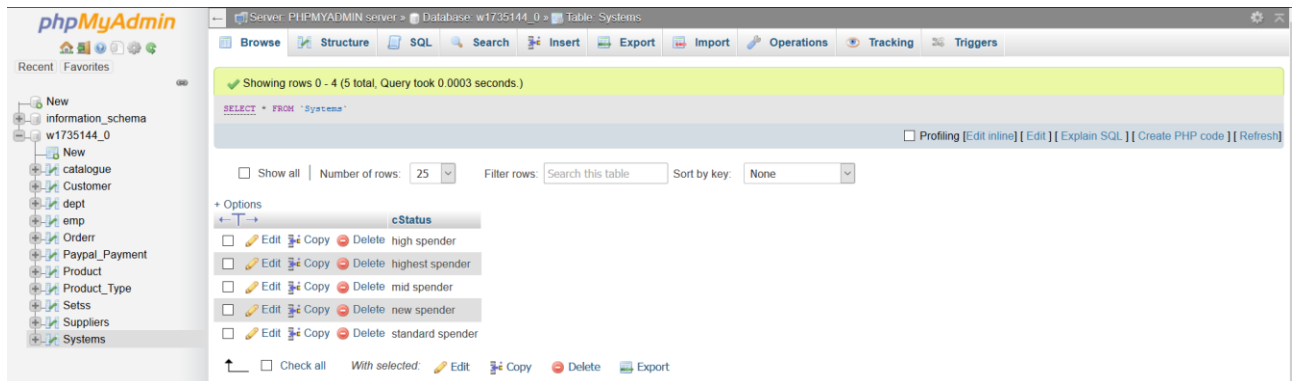
(

cStatus VARCHAR(30) NOT NULL,
CONSTRAINT p_p_pk PRIMARY KEY (cStatus)

);

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Data Input for Table fields

Systems



INSERT INTO

Systems (cStatus)

VALUES ("new spender");

INSERT INTO

Systems (cStatus)

VALUES ("high spender");

INSERT INTO

Systems (cStatus)

VALUES ("standard spender");

INSERT INTO

Systems (cStatus)

VALUES ("mid spender");

INSERT INTO

Systems (cStatus)

VALUES ("highest spender");

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Customer

customerId	cStatus	address	customerName	phoneNo	dob	emailAddress
3	standard spender	w5 4gr	John Smith	07465498776	18/12/1989	John76@gmail.com
12	high spender	en6 4hr	Jacob Mathews	07464535323	10/03/1982	jac@gmail.com
22	standard spender	en4 3sr	Martha White	073334228765	21/02/1990	Martha@hotmail.co.uk
42	highest spender	sw2 1tr	Sarah Mulligan	07996555000	28/03/1969	SM@gmail.com
52	mid spender	n7 1su	Alan Small	07459997700	01/09/1970	AlanS33@outlook.com

INSERT INTO

Customer (customerId, address, customerName, phoneNo, dob, emailAddress,cStatus)

VALUES (12, "en6 4hr", "Jacob Mathews", "07464535323", "10/03/1982", "jac@gmail.com", "high spender");

INSERT INTO

Customer (customerId, address, customerName, phoneNo, dob, emailAddress,cStatus)

VALUES (3, "w5 4gr", "John Smith", "07465498776", "18/12/1989", "John76@gmail.com", "standard spender");

INSERT INTO

Customer (customerId, address, customerName, phoneNo, dob, emailAddress,cStatus)

VALUES (22, "en4 3sr", "Martha White", "073334228765", "21/02/1990", "Martha@hotmail.co.uk", "standard spender");

INSERT INTO

Customer (customerId, address, customerName, phoneNo, dob, emailAddress,cStatus)

VALUES (42, "sw2 1tr", "Sarah Mulligan", "07996555000", "28/03/1969", "SM@gmail.com", "highest spender");

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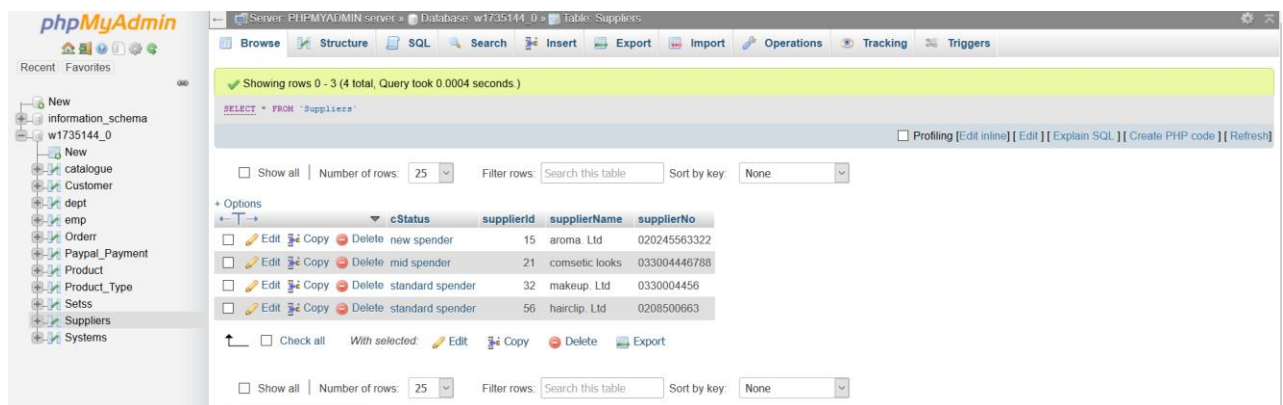
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INSERT INTO

Customer (customerId, address, customerName, phoneNo, dob, emailAddress,cStatus)

VALUES (52, "n7 1su", "Alan Small", "07459997700", "01/09/1970", "AlanS33@outlook.com","mid spender");

Suppliers



The screenshot shows the phpMyAdmin interface for a database named 'w1735144_0'. The 'Suppliers' table is selected, and its structure is displayed. The table has four columns: cStatus, supplierId, supplierName, and supplierNo. The data is as follows:

cStatus	supplierId	supplierName	supplierNo
new spender	15	aroma. Ltd	020245563322
mid spender	21	comsetic looks	033004446788
standard spender	32	makeup. Ltd	0330004456
standard spender	56	hairclip. Ltd	0208500663

INSERT INTO

Suppliers (supplierId, cStatus, supplierNo, supplierName)

VALUES (32, "standard spender", "0330004456", "makeup. Ltd");

INSERT INTO

Suppliers (supplierId, cStatus, supplierNo, supplierName)

VALUES (21, "mid spender", "033004446788", "comsetic looks");

INSERT INTO

Suppliers (supplierId, cStatus, supplierNo, supplierName)

VALUES (15, "new spender", "020245563322", "aroma. Ltd");

INSERT INTO

Suppliers (supplierId, cStatus, supplierNo, supplierName)

VALUES (56, "standard spender", "0208500663", "hairclip. Ltd");

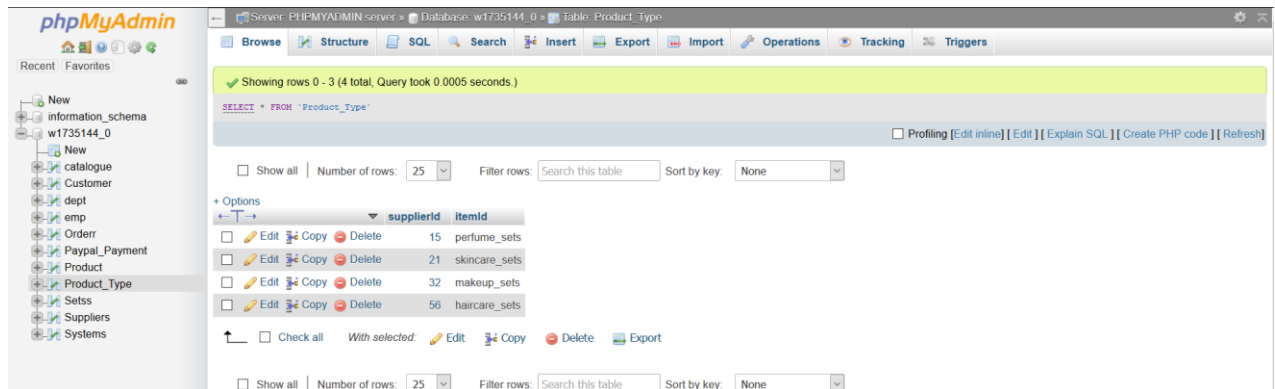
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Product Type



The screenshot shows the phpMyAdmin interface for a database named 'w1735144_0'. The 'Product_Type' table is selected, and its structure is displayed. The table has two columns: 'supplierId' and 'itemId'. The data is as follows:

supplierId	itemId
15	perfume_sets
21	skincare_sets
32	makeup_sets
56	haircare_sets

INSERT INTO

Product_Type(supplierId,itemId)

VALUES (32,"makeup_sets");

INSERT INTO

Product_Type(supplierId,itemId)

VALUES (15,"perfume_sets");

INSERT INTO

Product_Type(supplierId,itemId)

VALUES (21,"skincare_sets");

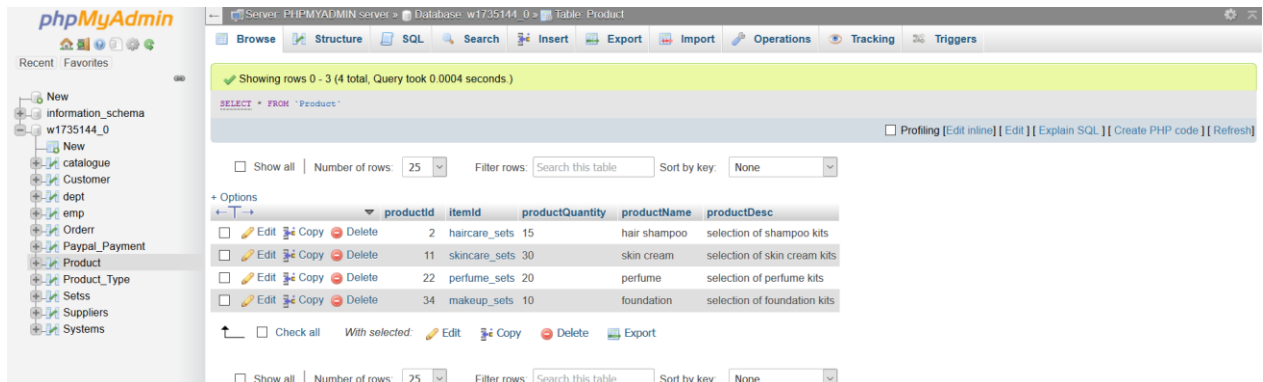
INSERT INTO

Product_Type(supplierId,itemId)

VALUES (56,"haircare_sets");

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Product



The screenshot shows the phpMyAdmin interface for a database named 'w1735144_0'. The 'Product' table is selected, and its structure is displayed. The table has five columns: productId, itemId, productQuantity, productName, and productDesc. The data is as follows:

productId	itemId	productQuantity	productName	productDesc
2	haircare_sets	15	hair shampoo	selection of shampoo kits
11	skincare_sets	30	skin cream	selection of skin cream kits
22	perfume_sets	20	perfume	selection of perfume kits
34	makeup_sets	10	foundation	selection of foundation kits

INSERT INTO

```
Product(productId,itemId,productDesc,productName,productQuantity)
VALUES (22,"perfume_sets","selection of perfume kits","perfume","20");
```

INSERT INTO

```
Product(productId,itemId,productDesc,productName,productQuantity)
VALUES (11,"skincare_sets","selection of skin cream kits","skin cream","30");
```

INSERT INTO

```
Product(productId,itemId,productDesc,productName,productQuantity)
VALUES (02,"haircare_sets","selection of shampoo kits","hair shampoo","15");
```

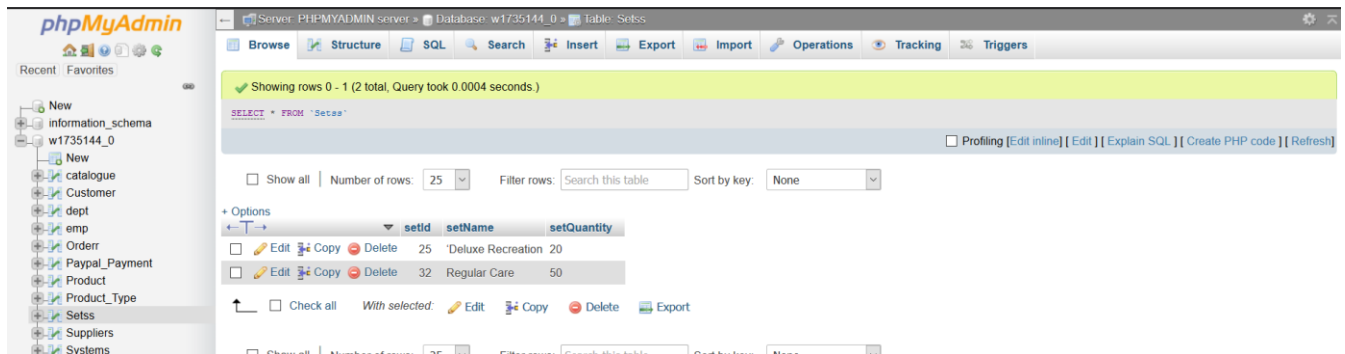
INSERT INTO

```
Product(productId,itemId,productDesc,productName,productQuantity)
VALUES (34,"makeup_sets","selection of foundation kits","foundation","10");
```

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Sets



The screenshot shows the phpMyAdmin interface for a database named 'w1735144_0'. The 'Sets' table is selected, and its structure is displayed. The table has three columns: 'setId', 'setName', and 'setQuantity'. The data is as follows:

setId	setName	setQuantity
25	Deluxe Recreation	20
32	Regular Care	50

INSERT INTO

Setss(setId,setName,setQuantity)

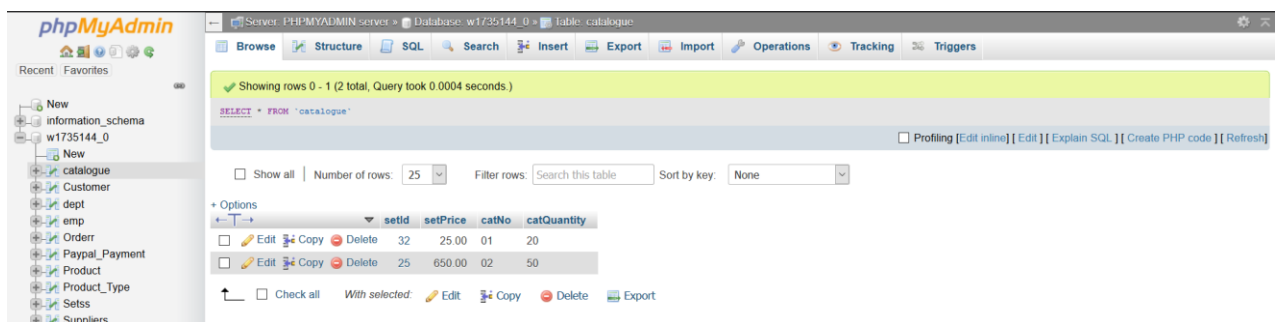
VALUES (25, "Deluxe Recreation", 20);

INSERT INTO

Setss(setId,setName,setQuantity)

VALUES (32, "Regular Care", 50);

Catalogue



The screenshot shows the phpMyAdmin interface for a database named 'w1735144_0'. The 'catalogue' table is selected, and its structure is displayed. The table has four columns: 'setId', 'setPrice', 'catNo', and 'catQuantity'. The data is as follows:

setId	setPrice	catNo	catQuantity
32	25.00	01	20
25	650.00	02	50

INSERT INTO

catalogue(setPrice,setId,catNo,catQuantity)

VALUES (25.00,32,"01","20");

INSERT INTO

catalogue(setPrice, setId,catNo,catQuantity)

VALUES (650.00,25,"02","50");

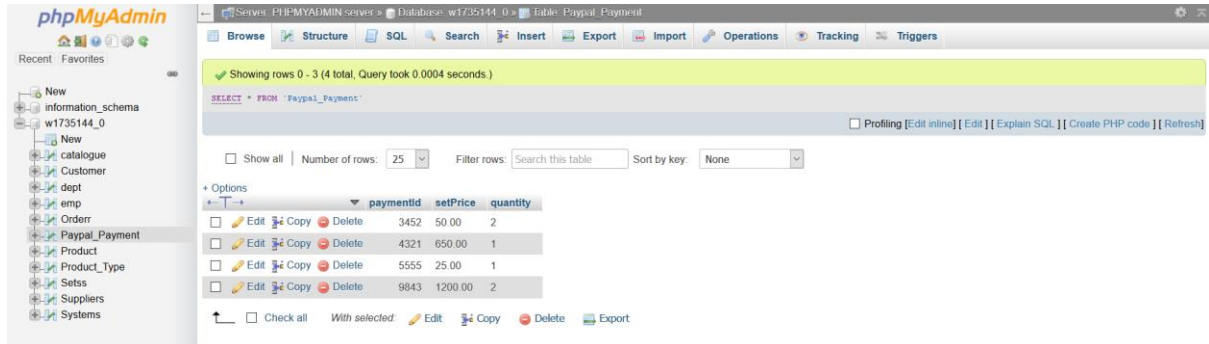
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Paypal Payment



The screenshot shows the phpMyAdmin interface. On the left, the database structure is visible, including 'information_schema' and 'w1735144_0'. The 'Paypal_Payment' table is selected. The main area displays the table's structure and data. The table has three columns: 'paymentId', 'setPrice', and 'quantity'. The data is as follows:

paymentId	setPrice	quantity
3452	50.00	2
4321	650.00	1
5555	25.00	1
9843	1200.00	2

INSERT INTO

Paypal_Payment(paymentId,setPrice,quantity)

VALUES (3452, "50.00", "2");

INSERT INTO

Paypal_Payment (paymentId,setPrice,quantity)

VALUES (4321, "650.00", "1");

INSERT INTO

Paypal_Payment(paymentId,setPrice,quantity)

VALUES (9843, "1200.00", "2");

INSERT INTO

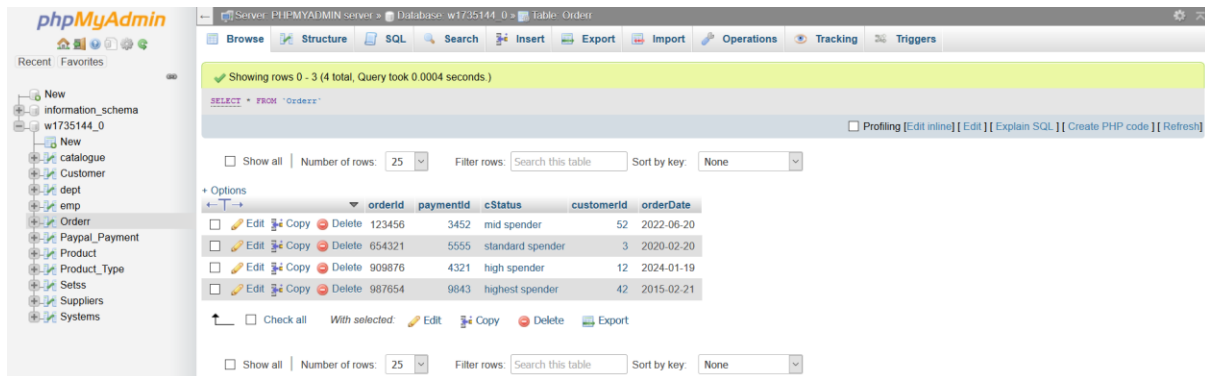
Paypal_Payment(paymentId,setPrice,quantity)

VALUES (5555, "25.00", "1");

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Order



The screenshot shows the phpMyAdmin interface for a database named 'w1735144_0'. The 'Orders' table is selected, and its structure is displayed. The table has five columns: orderid, paymentid, cStatus, customerid, and orderDate. The data is as follows:

orderid	paymentid	cStatus	customerid	orderDate
123456	3452	mid spender	52	2022-06-20
654321	5555	standard spender	3	2020-02-20
909876	4321	high spender	12	2024-01-19
987654	9843	highest spender	42	2015-02-21

INSERT INTO

Orderr(orderId,paymentId,customerId,cStatus,orderDate)

VALUES (654321,5555,3,"standard spender", '20-02-20');

INSERT INTO

Orderr(orderId,paymentId,customerId,cStatus,orderDate)

VALUES (123456,3452,52,"mid spender", '22-06-20');

INSERT INTO

Orderr(orderId,paymentId,customerId,cStatus,orderDate)

VALUES (987654, 9843,42,"highest spender", '15-02-21');

INSERT INTO

Orderr(orderId,paymentId,customerId,cStatus,orderDate)

VALUES (909876, 4321,12,"high spender", '24-01-19');

