Database Project Part B

INFO 308

Create the Tables using MySQL that will track items i.e., products, orders, order details, categories, suppliers, and shipping methods. The database needs to track the inventory levels for each products

Orders Table:

Code of creating tables –

```
CREATE TABLE Orders (OrderID INT NOT NULL AUTO_INCREMENT, OrderDate Date, CONSTRAINT Orders_pk PRIMARY KEY(OrderID))
```

Inserting data –

```
INSERT INTO Orders (OrderDate) VALUES (20110101), (20110101), (20110101), (20110101), (20110101), (20110101), (20110101), (20110101), (20110101), (20110101)
```

Finished table –

OrderID	OrderDate
1	2011-01-01
2	2011-01-01
3	2011-01-01
4	2011-01-01
5	2011-01-01
6	2011-01-01
7	2011-01-01
8	2011-01-01
9	2011-01-01
10	2011-01-01

Field	Type	Null	Key	Default	Extra
OrderID	int	NO	PRI	NULL	auto_increment
OrderDate	date	YES		NULL	

OrderLine Table:

Code of creating tables –

```sql
CREATE TABLE OrderLine (OrderID INT NOT NULL, ProductID INT NOT NULL, OrderQty INT, CONSTRAINT OrderLine_OrderIDProductID_pk PRIMARY KEY(OrderID, ProductID), CONSTRAINT OrderLine_OrderID_fk FOREIGN KEY(OrderID)
REFERENCES Orders(OrderID), CONSTRAINT OrderLine_ProductID_fk FOREIGN KEY(ProductID) REFERENCES Product(ProductID))
```

Inserting data –

```sql
INSERT INTO OrderLine (OrderID, ProductID, OrderQty) VALUES(1, 1, 1), (1, 2, 2), (2, 4, 1), (3, 5, 1), (4, 1, 1), (5, 2, 2), (6, 3, 1), (6, 5, 1), (7, 1, 1), (7, 3, 1)
```

Finished table –

OrderID	ProductID	OrderQty
1	1	1
1	2	2
2	4	1
3	5	1
4	1	1
5	2	2
6	3	1
6	5	1
7	1	1
7	3	1

#	Name	Type	Collation	Attributes	Null	Default
1	OrderID 🔑	int			No	None
2	ProductID 🔑 🔑	int			No	None
3	OrderQty	int			Yes	NULL

Category Table:

Code of creating tables –

```
CREATE TABLE Category (CategoryID INT NOT NULL AUTO_INCREMENT, CategoryName VARCHAR(65), CONSTRAINT Category_pk PRIMARY KEY(CategoryID))
```

Inserting data –

```
INSERT INTO Category (CategoryName) VALUES ('MP3'), ('Cell Phone/SmartPhone'), ('GPS'), ('PDA')
```

Finished table –

CategoryID	CategoryName
1	MP3
2	Cell Phone/SmartPhone
3	GPS
4	PDA

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	CategoryID 🔑	int			No	None		AUTO_INCREMENT
2	CategoryName	varchar(65)	utf8_unicode_ci		Yes	NULL		

Product:

Code of creating tables –

```sql
CREATE TABLE Product (ProductID INT NOT NULL AUTO_INCREMENT, ProductName VARCHAR(65), ProductDesc VARCHAR(65), UnitPrice NUMERIC(6, 2), SupplierName VARCHAR(65), ReorderLevel INT, LeadTime INT, QoH INT, SupplierID
INT NOT NULL, CategoryID INT NOT NULL, CONSTRAINT Product_pk PRIMARY KEY(ProductID), CONSTRAINT Product_CategoryID_fk FOREIGN KEY(CategoryID) REFERENCES Category(CategoryID))
```

```sql
ALTER TABLE Product ADD CONSTRAINT Product_SupplierID_fk FOREIGN KEY(SupplierID) REFERENCES Supplier(SupplierID)
```

Inserting data –

```sql
INSERT INTO Product (ProductName, ProductDesc, UnitPrice, SupplierName, ReorderLevel, LeadTime, QoH, SupplierID, CategoryID) VALUES('Ipod Shuffle', '1GB', 99.00, 'Apple', 10, 10, 52, 1, 1), ('Ipod Mini', '4GB',
149.00, 'Apple', 25, 10, 20, 1, 1), ('Ipod Nano', '2GB', 199.00, 'Apple', 25, 10, 22, 1, 1), ('LG C2000', 'Camera phone with 3x digital zoom', 99.00, 'LG', 5, 10, 24, 2, 2), ('Nokia 6061', 'Media Net capable for
surfing the Internet', 79.00, 'Nokia America', 10, 10, 26, 3, 2), ('Nokia 6102', 'EDGE high-speed data access', 99.00, 'Nokia America', 10, 5, 20, 3, 2), ('Motorola RAZR V3', 'Black', 149.00, 'CellularFactory', 10,
5, 10, 4, 2), ('LG CU320', 'MP3 Music Player with Stereo Sound', 149.00, 'LG', 10, 5, 10, 2, 2), ('Garmin Streetpilot 2730', 'Portable Car Navigation', 899.00, 'Garmin', 5, 10, 2, 5, 3), ('Magellan Explorist',
'explorist 100 North American', 125.00, 'CellularFactory', 5, 5, 5, 4, 3)
```

Finished table –

ProductID	ProductName	ProductDesc	UnitPrice	SupplierName	ReorderLevel	LeadTime	QoH	SupplierID	CategoryID
1	Ipod Shuffle	1GB	99.00	Apple	10	10	52	1	1
2	Ipod Mini	4GB	149.00	Apple	25	10	20	1	1
3	Ipod Nano	2GB	199.00	Apple	25	10	22	1	1
4	LG C2000	Camera phone with 3x digital zoom	99.00	LG	5	10	24	2	2
5	Nokia 6061	Media Net capable for surfing the Internet	79.00	Nokia America	10	10	26	3	2
6	Nokia 6102	EDGE high-speed data access	99.00	Nokia America	10	5	20	3	2
7	Motorola RAZR V3	Black	149.00	CellularFactory	10	5	10	4	2
8	LG CU320	MP3 Music Player with Stereo Sound	149.00	LG	10	5	10	2	2
9	Garmin Streetpilot 2730	Portable Car Navigation	899.00	Garmin	5	10	2	5	3
10	Magellan Explorist	explorist 100 North American	125.00	CellularFactory	5	5	5	4	3

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ProductID 🔑	int			No	None		AUTO_INCREMENT
2	ProductName	varchar(65)	utf8_unicode_ci		Yes	NULL		
3	ProductDesc	varchar(65)	utf8_unicode_ci		Yes	NULL		
4	UnitPrice	decimal(6,2)			Yes	NULL		
5	SupplierName	varchar(65)	utf8_unicode_ci		Yes	NULL		
6	ReorderLevel	int			Yes	NULL		
7	LeadTime	int			Yes	NULL		
8	QoH	int			Yes	NULL		
9	SupplierID 🔑	int			No	None		
10	CategoryID 🔑	int			No	None		

Supplier:

Code of creating tables –

```
CREATE TABLE Supplier (SupplierID INT NOT NULL AUTO_INCREMENT, SupplierName VARCHAR(65), ContactName VARCHAR(65), StreetAddress VARCHAR(35), City VARCHAR(30), State CHAR(2), PostalCode CHAR(10), Country VARCHAR(20),
PhoneNumber VARCHAR(15), EmailAddress VARCHAR(30), ShipperID INT NOT NULL, CONSTRAINT Supplier_pk PRIMARY KEY(SupplierID), CONSTRAINT Supplier_ShipperID_fk FOREIGN KEY(ShipperID) REFERENCES Shipping(ShipperID))
```

Inserting data –

```
INSERT INTO Supplier (SupplierName, ContactName, StreetAddress, City, State, PostalCode, Country, PhoneNumber, EmailAddress, ShipperID) VALUES('Apple Computers', 'Steve Jobs', '1 Infinite Loop', 'Cupertino', 'CA',
95014, 'USA', '(401) 555-1212', 'apple.com', 1), ('LG Twin Towers', 'S.S. Kim', 'LG Twin Towers', 'Seoul', NULL, 15047, 'Korea', '(100) 555-4822', 'lge.com', 2), ('Nokia Americas', 'Regina Murphy', '6000 Connection
Drive', 'Irving', 'TX', 75039, 'USA', '(972) 894-5735', 'nokia.com', 2), ('CellularFactory', 'Megan Bell', '3030 Market Street', 'Denver', 'CO', 100, 'USA', '(303) 988-4490', 'cellularfactory.com', 3), ('Garmin
International Inc', 'Robert McCloud', '1200 East 151st Street', 'Olathe', 'KS', 660623426, 'USA', '(913) 397-8200', 'garmin.com', 1)
```

Finished table –

SupplierID	SupplierName	ContactName	StreetAddress	City	State	PostalCode	Country	PhoneNumber	EmailAddress	ShipperID
1	Apple Computers	Steve Jobs	1 Infinite Loop	Cupertino	CA	95014	USA	(401) 555-1212	apple.com	1
2	LG Twin Towers	S.S. Kim	LG Twin Towers	Seoul	NULL	15047	Korea	(100) 555-4822	lge.com	2
3	Nokia Americas	Regina Murphy	6000 Connection Drive	Irving	TX	75039	USA	(972) 894-5735	nokia.com	2
4	CellularFactory	Megan Bell	3030 Market Street	Denver	CO	100	USA	(303) 988-4490	cellularfactory.com	3
5	Garmin International Inc	Robert McCloud	1200 East 151st Street	Olathe	KS	660623426	USA	(913) 397-8200	garmin.com	1

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	SupplierID 🔑	int			No	None		AUTO_INCREMENT
2	SupplierName	varchar(65)	utf8_unicode_ci		Yes	NULL		
3	ContactName	varchar(65)	utf8_unicode_ci		Yes	NULL		
4	StreetAddress	varchar(35)	utf8_unicode_ci		Yes	NULL		
5	City	varchar(30)	utf8_unicode_ci		Yes	NULL		
6	State	char(2)	utf8_unicode_ci		Yes	NULL		
7	PostalCode	char(10)	utf8_unicode_ci		Yes	NULL		
8	Country	varchar(20)	utf8_unicode_ci		Yes	NULL		
9	PhoneNumber	varchar(15)	utf8_unicode_ci		Yes	NULL		
10	EmailAddress	varchar(30)	utf8_unicode_ci		Yes	NULL		
11	ShipperID 🔑	int			No	None		

Shipping:

Code of creating tables –

```
CREATE TABLE Shipping (ShipperID INT NOT NULL AUTO_INCREMENT, ShipperName VARCHAR(65), CONSTRAINT Shipping_pk PRIMARY KEY(ShipperID))
```

Inserting data –

```
INSERT INTO Shipping (ShipperName) VALUES('FedEx'), ('USPS'), ('DHL')
```

Finished table –

ShipperID	ShipperName
1	FedEx
2	USPS
3	DHL

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ShipperID 🔑	int			No	None		AUTO_INCREMENT
2	ShipperName	varchar(65)	utf8_unicode_ci		Yes	NULL		