Database Portfolio 5 – 18001399

CREATE USER ‘salesAssistant’@’localhost’

CREATE USER ‘client’@’localhost’

CREATE USER ‘supplier’@’localhost’

CREATE DATABASE myOrders

USE myOrders

CREATE TABLE tblClient (cid int not null auto\_increment, forename varchar(30), surname varchar(30), addressL1 varchar(30), addressL2 varchar(30), townCity varchar(20), postcode varchar(10), email varchar(20), phone varchar(20))

CREATE TABLE tblProduct (pid int not null auto\_increment, description text(120), saleCost int(20), quantityRemaining int(20))

CREATE TABLE tblOrder (oid int not null auto\_increment, cid, dateOrdered date(20), dateShipped date(20), paymentMethod varchar(20))

CREATE TABLE tblProductOnOrder (oid, pid, quantityOrdered int(20))

CREATE TABLE tblSupplier (sid int not null auto\_increment, name varchar(30), addressL1 varchar(30), addressL2 varchar(30), townCity varchar(20), postcode varchar(10), email varchar(20), phone varchar(20), creditAmount int(20))

CREATE TABLE tblSupplierOfProduct (sid, pid, unitCost int(20), dateSupplied date(20), quantitySupplied varchar(20))

BUSINESS OPERATIONS

**Sales Assistant**

**BO1 – Add a new client record**

GRANT INSERT (cid, forename, surname, addressL1, addressL2, townCity, postcode, email, phone) ON myOrders.tblClient TO ‘salesAssistant’@’localhost’

**BO2 – Update a client record**

GRANT INSERT, UPDATE (cid, forename, surname, addressL1, addressL2, townCity, postcode, email, phone) ON myOrders.tblClient TO ‘salesAssistant’@’localhost’

**BO3 – View client record**

GRANT SELECT myOrders.tblClient TO ‘salesAssistant’@’localhost’

**BO4 – Add a new product record**

GRANT INSERT (pid, description, saleCost, quantityRemaining) ON myOrders.tblProduct TO ‘salesAssistant’@’localhost’

**BO5 – Update a product record**

GRANT INSERT, UPDATE (pid, description, saleCost, quantityRemaining) ON myOrders.tblProduct TO ‘salesAssistant’@’localhost’

**BO6 – View product record**

GRANT SELECT myOrders.tblProduct TO ‘salesAssistant’@’localhost’

**BO7 – Add a new order**

GRANT INSERT (oid, cid, dateOrdered, dateShipped, paymentMethod) ON myOrders.tblOrder TO ‘salesAssistant’@’localhost’

**BO8 – Update order details**

GRANT INSERT, UPDATE (oid, cid, dateOrdered, dateShipped, paymentMethod) ON myOrders.tblOrder TO ‘salesAssistant’@’localhost’

**BO9 – View order details**

GRANT SELECT myOrders.tblOrder TO ‘salesAssistant’@’localhost’

**BO10 – Add a new product on order**

GRANT INSERT (oid, pid, quantityOrdered) ON myOrders.tblProductOnOrder TO ‘salesAssistant’@’localhost’

**BO11 – Update a product on order**

GRANT INSERT, UPDATE (oid, pid, quantityOrdered) ON myOrders. tblProductOnOrder TO ‘salesAssistant’@’localhost’

**BO12 – View product(s) on an order**

GRANT SELECT myOrders.tblProductOnOrder TO ‘salesAssistant’@’localhost’

**BO13 – Add a new supplier**

GRANT INSERT (sid, name, addressL1, addressL2, townCity, postcode, email, phone, creditAmount) ON myOrders.tblSupplier TO ‘salesAssistant’@’localhost’

**BO14 – Update supplier details**

GRANT INSERT, UPDATE (sid, name, addressL1, addressL2, townCity, postcode, email, phone, creditAmount) ON myOrders.tblSupplier TO ‘salesAssistant’@’localhost’

**BO15 – View supplier details**

GRANT SELECT myOrders.tblSupplier TO ‘salesAssistant’@’localhost’

**BO16 – Add a supplier of product**

GRANT INSERT (sid, pid, unitCost, dateSupplied, quantitySupplied) ON myOrders.tblSupplierOfProduct TO ‘salesAssistant’@’localhost’

**BO17 – Update supplier of product details**

GRANT INSERT, UPDATE (sid, pid, unitCost, dateSupplied, quantitySupplied) ON myOrders.tblSupplierOfProduct TO ‘salesAssistant’@’localhost’

**Client**

**BO18 – Add a new client record**

GRANT INSERT (cid, forename, surname, addressL1, addressL2, townCity, postcode, email, phone) ON myOrders.tblClient TO ‘client’@’localhost’

**BO19 – Update a client record**

GRANT INSERT, UPDATE (cid, forename, surname, addressL1, addressL2, townCity, postcode, email, phone) ON myOrders.tblClient TO ‘client’@’localhost’

**BO20 – View a client record**

GRANT SELECT myOrders.tblClient TO ‘client’@’localhost’

**Supplier**

**BO21 – Add a new supplier record**

GRANT INSERT (sid, name, addressL1, addressL2, townCity, postcode, email, phone, creditAmount) ON myOrders.tblSupplier TO ‘supplier’@’localhost’

**BO22 – Update a supplier record**

GRANT INSERT, UPDATE (sid, name, addressL1, addressL2, townCity, postcode, email, phone, creditAmount) ON myOrders.tblSupplier TO ‘supplier’@’localhost’

**BO23 – View a supplier record**

GRANT SELECT myOrders.tblSupplier TO ‘supplier’@’localhost’

BUSINESS RULES

**Sales Assistant**

**BR1 – Not update cid for Client**

GRANT INSERT (cid, forename, surname, addressL1, addressL2, townCity, postcode, email, phone) ON myOrders.tblClient TO salesAssistant'@'localhost‘

GRANT UPDATE (forename, surname, addressL1, addressL2, townCity, postcode, email, phone) ON myOrders.tblClient TO salesAssistant'@'localhost'

**BR2 – Not delete Client details**

REVOKE DELETE (cid, forename, surname, addressL1, addressL2, townCity, postcode, email, phone) ON myOrders.tblClient TO salesAssistant'@'localhost'

**BR3 – Not update pid for Product**

GRANT INSERT (pid, description, saleCost, quantityRemaining) ON myOrders.tblProduct TO salesAssistant'@'localhost‘

GRANT UPDATE (description, saleCost, quantityRemaining) ON myOrders.tblClient TO salesAssistant'@'localhost'

**BR4 – Not update oid, cid for Order**

GRANT INSERT (oid, cid, dateOrdered, dateShipped, paymentMethod) ON myOrders.tblOrder TO salesAssistant'@'localhost‘

GRANT UPDATE (dateOrdered, dateShipped, paymentMethod) ON myOrders.tblOrder TO salesAssistant'@'localhost'

**BR5 – Not delete Order details**

REVOKE DELETE (oid, cid, dateOrdered, dateShipped, paymentMethod) ON myOrders.tblOrder TO salesAssistant'@'localhost‘

**BR6 – Not update oid, pid on product on order**

GRANT INSERT (oid, pid, quantityOrdered) ON myOrders.tblProductOnOrder TO salesAssistant'@'localhost‘

GRANT UPDATE (quantityOrdered) ON myOrders. tblProductOnOrder TO salesAssistant'@'localhost'

**BR7 – Not delete product on order**

REVOKE DELETE (oid, pid, quantityOrdered) ON myOrders.tblProductOnOrder TO salesAssistant'@'localhost‘

**BR8 – Not update sid for Supplier**

GRANT INSERT (sid, name, addressL1, addressL2, townCity, postcode, email, phone, creditAmount) ON myOrders.tblSupplier TO salesAssistant'@'localhost‘

GRANT UPDATE (name, addressL1, addressL2, townCity, postcode, email, phone, creditAmount) ON myOrders.tblSupplier TO salesAssistant'@'localhost'

**BR9 – Not update sid, pid for Supplier of Product**

GRANT INSERT (sid, pid, unitCost, dateSupplied, quantitySupplied) ON myOrders.tblSupplierOfProduct TO salesAssistant'@'localhost‘

GRANT UPDATE (unitCost, dateSupplied, quantitySupplied) ON myOrders.tblSupplierOfProduct TO salesAssistant'@'localhost'

**Client**

**BR10 – Not delete client details**

REVOKE DELETE ON myOrders.tblClient TO client'@'localhost'

**BR11 – Not update cid or forename for client**

GRANT INSERT (cid, forename, surname, addressL1, addressL2, townCity, postcode, email, phone) ON myOrders.tblClient TO client'@'localhost‘

GRANT UPDATE (surname, addressL1, addressL2, townCity, postcode, email, phone) ON myOrders.tblClient TO client'@'localhost'

**BR12 – Not view product details**

REVOKE SELECT ON myOrders.tblProduct TO client'@'localhost‘

**BR13 – Not add product details**

REVOKE INSERT ON myOrders.tblProduct TO client'@'localhost‘

**BR14 – Not delete product details**

REVOKE DELETE ON myOrders.tblProduct TO client'@'localhost‘

**BR15 – Not update product details**

REVOKE UPDATE ON myOrders.tblProduct TO client'@'localhost‘

**BR16 – Not view product on order details**

REVOKE SELECT ON myOrders.tblProductOnOrder TO client'@'localhost‘

**BR17 – Not add product on order details**

REVOKE INSERT ON myOrders.tblProductOnOrder TO client'@'localhost‘

**BR18 – Not delete product on order details**

REVOKE DELETE ON myOrders.tblProductOnOrder TO client'@'localhost‘

**BR19 – Not update product on order details**

REVOKE UPDATE ON myOrders.tblProductOnOrder TO client'@'localhost‘

**BR20 – Not view supplier details**

REVOKE SELECT ON myOrders.tblSupplier TO client'@'localhost‘

**BR21 – Not add supplier details**

REVOKE INSERT ON myOrders.tblSupplier TO client'@'localhost‘

**BR22 – Not delete supplier details**

REVOKE DELETE ON myOrders.tblSupplier TO client'@'localhost‘

**BR23 – Not update supplier details**

REVOKE UPDATE ON myOrders.tblSupplier TO client'@'localhost‘

**BR24 – Not view supplier of product details**

REVOKE SELECT ON myOrders.tblSupplierOfProduct TO client'@'localhost‘

**BR25 – Not add supplier of product details**

REVOKE INSERT ON myOrders.tblSupplierOfProduct TO client'@'localhost‘

**BR26 – Not delete supplier of product details**

REVOKE DELETE ON myOrders.tblSupplierOfProduct TO client'@'localhost‘

**BR27 – Not update supplier of product details**

REVOKE UPDATE ON myOrders.tblSupplierOfProduct TO client'@'localhost‘

**Supplier**

**BR28 – Not view client of details**

REVOKE SELECT ON myOrders.tblClient TO supplier'@'localhost‘

**BR29 – Not add client of details**

REVOKE INSERT ON myOrders.tblClient TO supplier'@'localhost‘

**BR30 – Not delete client of details**

REVOKE DELETE ON myOrders.tblClient TO supplier'@'localhost‘

**BR31 – Not update client of details**

REVOKE UPDATE ON myOrders.tblClient TO supplier'@'localhost‘

**BR32 – Not view product details**

REVOKE SELECT ON myOrders.tblProduct TO supplier'@'localhost‘

**BR33 – Not add product details**

REVOKE INSERT ON myOrders.tblProduct TO supplier'@'localhost‘

**BR34 – Not delete product details**

REVOKE DELETE ON myOrders.tblProduct TO supplier'@'localhost‘

**BR35 – Not update product details**

REVOKE UPDATE ON myOrders.tblProduct TO supplier'@'localhost‘

**BR36 – Not view product on order details.**

REVOKE SELECT ON myOrders.tblProductOnOrder TO supplier'@'localhost‘

**BR37 - Not add product on order details.**

REVOKE INSERT ON myOrders.tblProductOnOrder TO supplier'@'localhost‘

**BR38 - Not delete product on order details.**

REVOKE DELETE ON myOrders.tblProductOnOrder TO supplier'@'localhost‘

**BR39 - Not update product on order details.**

REVOKE UPDATE ON myOrders.tblProductOnOrder TO supplier'@'localhost‘

**BR40 - Not update sid on supplier details.**

GRANT INSERT (sid, name, addressL1, addressL2, townCity, postcode, email, phone, creditAmount) ON myOrders.tblSupplier TO supplier'@'localhost‘

GRANT UPDATE (name, addressL1, addressL2, townCity, postcode, email, phone, creditAmount) ON myOrders.tblSupplier TO supplier'@'localhost'

**BR41 – Not delete supplier details**

REVOKE DELETE ON myOrders.tblSupplier TO supplier'@'localhost‘

**BR42 – Not view supplier of product details**

REVOKE SELECT ON myOrders.tblSupplierOfProduct TO supplier'@'localhost‘

**BR43 – Not add supplier of product details**

REVOKE INSERT ON myOrders.tblSupplierOfProduct TO supplier'@'localhost‘

**BR44 – Not delete supplier of product details**

REVOKE DELETE ON myOrders.tblSupplierOfProduct TO supplier'@'localhost‘

**BR45 – Not update supplier of product details**

REVOKE UPDATE ON myOrders.tblSupplierOfProduct TO supplier'@'localhost‘