



Sri Lanka Institute of Information Technology

IE2042 – Database Management Systems
for Security

Lab Submission 03

IT22151056

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Group – WD.CS 01.02

Create Tables

The screenshot displays the Microsoft SQL Server Management Studio interface. The title bar indicates the connection to 'SQLQuery1.sql - DESKTOP-OASRVSC\SQLEXPRESS.master (DESKTOP-OASRVSC\Kavindya Desilva (56))'. The menu bar includes 'Edit', 'View', 'Query', 'Project', 'Tools', 'Window', and 'Help'. The toolbar contains various icons for file operations, query execution, and formatting. The 'Server Explorer' on the left shows the database structure, including 'Databases', 'System Databases', 'Database Snapshots', 'Movie Booking', 'Security', 'Server Objects', 'Replication', 'PolyBase', 'Management', and 'XEvent Profiler'. The main query editor shows the following SQL script:

```
--Suppliers--
CREATE TABLE Supplier(
    supId int,
    contactName varchar(150),
    s_address varchar(150),
    s_phone int,
    CONSTRAINT Supplier_PK PRIMARY KEY(supId));

--Product--
CREATE TABLE Product(
    ProdId varchar(20),
    prodName varchar(150),
    qty int,
    unitPrice int,
    ROL int,
    supplier int,
    CONSTRAINT Product_PK PRIMARY KEY(ProdId),
    CONSTRAINT Product_FK FOREIGN KEY(supplier) REFERENCES Supplier(supId),
    CONSTRAINT checking_ProdId CHECK(ProdId LIKE 'P%'));

--Customer--
CREATE TABLE Customer_1 (
    cusId varchar(20),
    cusName varchar(150),
    c_address varchar (150),
    c_phone int,
    points int,
    CONSTRAINT Customer_PK PRIMARY KEY(cusId),
    CONSTRAINT checking_cusId CHECK(cusId LIKE 'C%'));

--Staff--
```

The status bar at the bottom shows '121 %' zoom and a 'Messages' pane. The messages pane displays the following information:

(1 row affected)

Completion time: 2023-08-17T22:19:14.6446913+05:30

```

CONSTRAINT checking_ProdId CHECK(ProdId LIKE 'P%'));

--Customer--
CREATE TABLE Customer_1 (
    cusId varchar(20),
    cusName varchar(150),
    c_address varchar (150),
    c_phone int,
    points int,
    CONSTRAINT Customer_PK PRIMARY KEY(cusId),
    CONSTRAINT checking_cusId CHECK(cusId LIKE 'C%'));

--Staff--
CREATE TABLE Staff (
    staffId varchar(20),
    st_Name varchar(150),
    st_phone int,
    CONSTRAINT Staff_PK PRIMARY KEY(staffId),
    CONSTRAINT checking_staffId CHECK(staffId LIKE 'S%'));

--Sales--
CREATE TABLE Sales (
    pid varchar(20),
    cid varchar(20),
    ssid varchar (20),
    salesDate DATE,
    CONSTRAINT Sales_PK PRIMARY KEY(pid,cid,ssid,salesDate),
    CONSTRAINT Sales_FK FOREIGN KEY(pid) REFERENCES Product(prodId),
    CONSTRAINT Sales_FK1 FOREIGN KEY(cid) REFERENCES Customer_1(cusId),
    CONSTRAINT Sales_FK2 FOREIGN KEY(ssid) REFERENCES Staff(staffId));
    
```

(1 row affected)

Completion time: 2023-08-17T22:19:14.6446913+05:30

Insert data

The screenshot displays the Microsoft SQL Server Management Studio interface. The title bar indicates the file is 'SQLQuery1.sql' in the 'master' database of a 'DESKTOP-OASRVSC\SQLEXPRESS' instance. The menu bar includes File, Edit, View, Query, Project, Tools, Window, and Help. The toolbar contains icons for New Query, Execute, and other standard SQL Server actions. The Object Explorer on the left shows the database structure, including Databases, System Databases, Database Snapshots, Movie Booking, Security, Server Objects, Replication, PolyBase, Management, and XEvent Profiler. The main query editor contains the following SQL script:

```
--customer--
INSERT INTO Customer_1 values ('C100','Ravi Perera', 'Colombo', '0112123456', '1200');
INSERT INTO Customer_1 values ('C101','Nimali Alwis', 'Gampaha', '0332212345', '275');

--Supplier--
INSERT INTO Supplier values ('1', 'Amal Ranjith', 'Ratmalana', '0112111111');
INSERT INTO Supplier values ('2', 'Nadeeka Perera', 'Borella', '0114555666');

--Product--
INSERT INTO Product values ('P0001', 'Lemon Puff', '22', '85', '20', '1');
INSERT INTO Product values ('P0201', 'Knor Soup', '8', '100', '10', '2');
INSERT INTO Product values ('P0084', 'Lipton Ceylonta', '12', '125', '15', '2');
INSERT INTO Product values ('P0222', 'chocolate fingers', '14', '50', '8', '1');

--Staff--
INSERT INTO Staff values ('S001','Kamal Silva','0718123456');
INSERT INTO Staff values ('S002','Amila Namal','0714222222');

--Sales--
INSERT INTO Sales (pid, cid, ssid, salesDate)
VALUES ('P0201', 'C100', 'S001', '2015-11-13');
INSERT INTO Sales (pid, cid, ssid, salesDate)
VALUES ('P0222', 'C101', 'S002', '2015-11-22');
INSERT INTO Sales (pid, cid, ssid, salesDate)
VALUES ('P0084', 'C100', 'S001', '2015-12-01');
INSERT INTO Sales (pid, cid, ssid, salesDate)
VALUES ('P0201', 'C100', 'S002', '2015-12-08');
```

The Messages pane at the bottom shows the execution result: (1 row affected). The completion time is 2023-08-17T22:19:14.6446913+05:30.

Select data

The screenshot displays the SQL Server Enterprise Manager interface. On the left, the Object Explorer shows the server structure, including Databases, Security, Server Objects, Replication, PolyBase, Management, and XEvent Profiler. The central query window, titled 'SQLQuery1.sql - DES...indya Desilva (56)', contains the following SQL code:

```
select * from Supplier  
  
select * from Customer_1  
  
select * from Product  
  
select * from Sales  
  
select * from Staff
```

Below the query window, the Results tab is active, displaying a table with 5 columns: supId, contactName, s_address, s_phone, and points. The table contains 2 rows of data:

supId	contactName	s_address	s_phone	points
1	Amal Ranjith	Ratmalana	112111111	1200
2	Nadeeka Perera	Borella	114555666	275

The bottom status bar shows the zoom level at 121%.

SQLQuery1.sql - DESKTOP-OASRVSC\SQLEXPRESS.master (DESKTOP-OASRVSC\Kavindya Desilva (56))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

master Execute

Object Explorer

- DESKTOP-OASRVSC\SQLEXP
- Databases
 - System Databases
 - Database Snapshots
 - Movie Booking
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Management
 - XEvent Profiler

SQLQuery1.sql - DES...indya Desilva (56))*

```
INSERT INTO Sales (pid, cid, ssid, salesDate)
VALUES ('P0084', 'C100', 'S001', '2015-12-01');
INSERT INTO Sales (pid, cid, ssid, salesDate)
VALUES ('P0201', 'C100', 'S002', '2015-12-08');

select * from Supplier
select * from Customer_1
select * from Product
select * from Sales
select * from Staff
```

121 %

Results Messages

	ProdId	prodName	qty	unitPrice	ROL	supplier
1	P0001	Lemon Puff	22	85	20	1
2	P0084	Lipton Ceylonta	12	125	15	2
3	P0201	Knor Soup	8	100	10	2
4	P0222	chocolate fingers	14	50	8	1

SQLQuery1.sql - DESKTOP-OASRVSC\SQLEXPRESS.master (DESKTOP-OASRVSC\Kavindya Desilva (56))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

master Execute

Object Explorer

- DESKTOP-OASRVSC\SQLEXP
- Databases
 - System Databases
 - Database Snapshots
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SQLQuery1.sql - DES...indya Desilva (56))*

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VALUES ('P0084', 'C100', 'S001', '2015-12-01');
INSERT INTO Sales (pid, cid, ssid, salesDate)
VALUES ('P0201', 'C100', 'S002', '2015-12-08');

select * from Supplier
select * from Customer_1
select * from Product
select * from Sales
select * from Staff
```

121 %

Results Messages

	pid	cid	ssid	salesDate
1	P0084	C100	S001	2015-12-01
2	P0201	C100	S001	2015-11-13
3	P0201	C100	S002	2015-12-08
4	P0222	C101	S002	2015-11-22

SQLQuery1.sql - DESKTOP-OASRVSC\SQLEXPRESS.master (DESKTOP-OASRVSC\Kavindya Desilva (56))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

master Execute

Object Explorer

Connect

DESKTOP-OASRVSC\SQLEXPRESS

- Databases
 - System Databases
 - Database Snapshots
 - Movie Booking
- Security
- Server Objects
- Replication
- PolyBase
- Management
- XEvent Profiler

SQLQuery1.sql - DESKTOP-OASRVSC\SQLEXPRESS.master (DESKTOP-OASRVSC\Kavindya Desilva (56))*

```
INSERT INTO Sales (pid, cid, ssid, salesDate)
VALUES ('P0084', 'C100', 'S001', '2015-12-01');
INSERT INTO Sales (pid, cid, ssid, salesDate)
VALUES ('P0201', 'C100', 'S002', '2015-12-08');

select * from Supplier

select * from Customer_1

select * from Product

select * from Sales

select * from Staff
```

121 %

Results Messages

	staffId	st_Name	st_phone
1	S001	Kamal Silva	718123456
2	S002	Amila Namal	714222222