



# **NEPAL COLLEGE OF INFORMATION AND TECHNOLOGY**

**BALKUMARI, LALITPUR**

## **DBMS**

### **Classwork**

# **BCA 2022**

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Submitted to:  
sagar chudali

### *Source Code:*

```
create table customers (  
customerID int primary key identity not null ,  
FirstName varchar(50),  
LastName varchar(50),  
Email nvarchar(50),  
DateOfBirth date not null,  
country varchar(15),  
CONSTRAINT CK_Email CHECK (Email LIKE '%_@_%._%'),  
CONSTRAINT CK_Country CHECK (Country IN ('USA', 'UK', 'CAN')),  
CONSTRAINT CK_DateOfBirth CHECK (DateOfBirth <= GETDATE())  
);
```

```
insert into customers (FirstName,LastName,Email,DateOfBirth,country)  
values  
( 'John','Doe','john.doe@example.com','1990-02-05','USA'),  
( 'Jane','Smith','jane.smith@example.com','1990-02-15','UK'),  
( 'Alice','Johnson','alice.j@example.com','1985-06-30',NULL);
```

```
CREATE TABLE Orders (  
OrderID INT PRIMARY KEY identity(100,1) not null,  
CustomerID INT FOREIGN KEY  
REFERENCES Customers(CustomerID),  
OrderDate DATE not null,  
TotalAmount DECIMAL(10, 2) not null  
);
```

```
INSERT INTO Orders (CustomerID, OrderDate, TotalAmount)  
VALUES  
(1, '2023-01-10', 250.00),  
(2, '2023-01-12', 300.00),  
(3, '2023-01-14', 150.00),  
(2, '2023-02-10', 450.00);
```

```
create table products(  
ProductID int primary key identity(200,1) not null,  
ProductName varchar(50),  
Price decimal(10,2)  
);
```

```
insert into products(ProductName,Price)  
  
values  
( 'Laptop',1000.00),  
( 'Mouse',50.00),
```

```
('Keyboard',75.00);
```

```
create table orderdetail(  
OrderDetailID int primary key identity(300,1) not null,  
OrderID int foreign key  
references orders(OrderID),  
ProductID int foreign key  
references products(productID),  
Quantity int,  
Discount decimal (10,2)  
);
```

```
insert into orderdetail(OrderID, ProductID, Quantity, Discount)  
values  
(100, 200, 1, 0.00),  
(101, 201, 2, 10.00),  
(102, 202, 1, 5.00),  
(103, 200, 1, 0.00),  
(103, 201, 1, 5.00);
```

```
SELECT OrderID, FirstName, LastName, TotalAmount FROM Orders o  
INNER JOIN customers c  
ON o.CustomerID = c.CustomerID;
```

**Output:**

SQLQuery1.sql - LAPTOP-CRJNO9SI.master (LAPTOP-CRJNO9SI\ACER (66))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

master Execute

Object Explorer

- Connect
- LAPTOP-CRJNO9SI (SQL Server 16.0.1115.1 - LA
  - Databases
  - Security
  - Server Objects
  - Replication
  - Always On High Availability
  - Management
  - Integration Services Catalogs
  - SQL Server Agent (Agent XPs disabled)
  - XEvent Profiler

SQLQuery1.sql - L...RJNO9SI\ACER (66))\*

```
(100, 200, 1, 0.00),  
(101, 201, 2, 10.00),  
(102, 202, 1, 5.00),  
(103, 200, 1, 0.00),  
(103, 201, 1, 5.00);  
SELECT OrderID, FirstName, LastName, TotalAmount FROM Orders o  
INNER JOIN customers c  
ON o.CustomerID = c.CustomerID;
```

110 %

Results Messages

	OrderID	FirstName	LastName	TotalAmount
1	100	John	Doe	250.00
2	101	Jane	Smith	300.00
3	102	Alice	Johnson	150.00
4	103	Jane	Smith	450.00

Query executed successfully.

LAPTOP-CRJNO9SI (16.0 RTM) LAPTOP-CRJNO9SI\ACER (66) master 00:00:00 4 rows

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Search

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