NEPAL COLLEGE OF INFORMATION AND TECHNOLOGY

BALKUMARI, LALITPUR

DBMS

Classwork

BCA 2022

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Submitted to:
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Source Code:

```sql
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:

```sql
(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;
```

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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