

SQL-Mandatory-Assignment-1

Salesman table creation

- [Create Database](#) Intellipaat_Assignments
[Use](#) Intellipaat_Assignments

- [CREATE TABLE](#) Salesman (
SalesmanId [INT](#),
Name [VARCHAR](#)(255),
Commission [DECIMAL](#)(10, 2),
City [VARCHAR](#)(255),
Age [INT](#)
)

Salesman table record insertion

- [INSERT INTO](#) Salesman (SalesmanId, Name, Commission, City, Age)
VALUES
(101, 'Joe', 50, 'California', 17),
(102, 'Simon', 75, 'Texas', 25),
(103, 'Jessie', 105, 'Florida', 35),
(104, 'Danny', 100, 'Texas', 22),
(105, 'Lia', 65, 'New Jersey', 30);
- [Select](#) * [from](#) Salesman

	SalesmanId	Name	Commission	City	Age
1	101	Joe	50.00	California	17
2	102	Simon	75.00	Texas	25
3	103	Jessie	105.00	Florida	35
4	104	Danny	100.00	Texas	22
5	105	Lia	65.00	New Jersey	30

Customer table creation

- [CREATE TABLE](#) Customer (
SalesmanId [INT](#),
CustomerId [INT](#),
CustomerName [VARCHAR](#)(255),
PurchaseAmount [INT](#),
);

Customer table record insertion

- INSERT INTO Customer (SalesmanId, CustomerId, CustomerName, PurchaseAmount)
VALUES
(101, 2345, 'Andrew', 550),
(103, 1575, 'Lucky', 4500),
(104, 2345, 'Andrew', 4000),
(107, 3747, 'Remona', 2700),
(110, 4004, 'Julia', 4545);
- `Select * from Customer`

Results		Messages		
	SalesmanId	CustomerId	CustomerName	PurchaseAmount
1	101	2345	Andrew	550
2	103	1575	Lucky	4500
3	104	2345	Andrew	4000
4	107	3747	Remona	2700
5	110	4004	Julia	4545

Orders table Creation

- `CREATE TABLE Orders (OrderId int, CustomerId int, SalesmanId int, Orderdate Date, Amount money)`

Orders table record insertion

- INSERT INTO Orders Values
(5001,2345,101,'2021-07-01',550),
(5003,1234,105,'2022-02-15',1500)
- `Select * from Orders`

Results		Messages			
	OrderId	CustomerId	SalesmanId	Orderdate	Amount
1	5001	2345	101	2021-07-01	550.00
2	5003	1234	105	2022-02-15	1500.00

Tasks to be Performed:

1.. Insert a new record in your Orders table.

`Insert Into Orders Values(5004,4004,104,'2022-02-19',3000)`

	OrderId	CustomerId	SalesmanId	Orderdate	Amount
1	5001	2345	101	2021-07-01	550.00
2	5003	1234	105	2022-02-15	1500.00
3	5004	4004	104	2022-02-19	3000.00

2. Add Primary key constraint for SalesmanId column in Salesman table. Add default constraint for City column in Salesman table. Add Foreign key constraint for SalesmanId column in Customer table. Add not null constraint in Customer_name column for the Customer table.

- Add Primary key constraint for SalesmanId column in Salesman table

```
Alter Table Salesman Alter Column SalesmanId int not null
Alter Table Salesman Add Constraint pk_SalesmanId Primary Key(SalesmanId)
```

- Add default constraint for City column in Salesman table. Add Foreign key constraint for SalesmanId column in Customer table

```
Begin Transaction
/*Filtering and Deleting Not Matching Records From SalesmanId Column From the Customer
With Respective to SalesmanId Column From the Salesman Table */
```

```
Select * From Customer Where SalesmanId not in (Select SalesmanId from Salesman)
```

```
Delete From Customer Where SalesmanId not in (Select SalesmanId From Salesman)
```

```
Alter Table Customer Add Constraint fk_SalesmanId Foreign Key(SalesmanId)
References Salesman(SalesmanId)
```

```
Rollback
```

- Add not null constraint in Customer_name column for the Customer table.

```
Alter Table Customer Alter Column CustomerName varchar(30) Not Null
```

3. Fetch the data where the Customer's name is ending with 'N' also get the purchase amount value greater than 500.

- `Select * From Customer Where CustomerName Like '%N'`

Ans: Found No Matching Records

- `Select * From Customer Where PurchaseAmount > 500`

Results		Messages		
	SalesmanId	CustomerId	CustomerName	PurchaseAmount
1	101	2345	Andrew	550
2	103	1575	Lucky	4500
3	104	2345	Andrew	4000
4	107	3747	Remona	2700
5	110	4004	Julia	4545

4. Using SET operators, retrieve the first result with unique SalesmanId values from two tables, and the other result containing SalesmanId with duplicates from two tables.

- `Select Distinct(SalesmanId) From Customer Union Select Distinct(SalesmanId) From Salesman`

Results		Messages		
	SalesmanId			
1	101			
2	102			
3	103			
4	104			
5	105			
6	107			
7	110			

- `Select Distinct(SalesmanId) From Customer Union All Select Distinct(SalesmanId) From Salesman`

Results		Messages		
	SalesmanId			
1	101			
2	103			
3	104			
4	107			
5	110			
6	101			
7	102			
8	103			
9	104			
10	105			

5. Display the below columns which has the matching data.

Orderdate, Salesman Name, Customer Name, Commission, and City which has the range of Purchase Amount between 500 to 1500.

- Select O.Orderdate,S.Name,C.CustomerName,S.Commission,S.City
 From Salesman As S
 Join Customer as C
 On S.SalesmanId = C.SalesmanId
 Join Orders as O
 On O.CustomerId = C.CustomerId
 Where C.PurchaseAmount Between 500 And 1500

Results		Messages			
	Orderdate	Name	CustomerName	Commission	City
1	2021-07-01	Joe	Andrew	50.00	California

6. Using right join fetch all the results from Salesman and Orders table.

- Select * From Salesman As S
 Right Join Orders As O
 On S.SalesmanId = O.SalesmanId

	SalesmanId	Name	Commission	City	Age	OrderId	CustomerId	SalesmanId	Orderdate	Amount
1	101	Joe	50.00	California	17	5001	2345	101	2021-07-01	550.00
2	105	Lia	65.00	New Jersey	30	5003	1234	105	2022-02-15	1500.00
3	104	Danny	100.00	Texas	22	5004	4004	104	2022-02-19	3000.00