

Q- 1: Statement to create the Contact table

- create table Contact(
 ContactID int primary key ,
 CompanyID int,
 FirstName varchar(45),
 Lastname varchar(45),
 Street varchar(45),
 City varchar(45),
 State varchar(45),
 zip varchar(10),
 IsMain boolean,
 Email varchar(45),
 Phone varchar(12)
);

Result Grid

Filter Rows:



Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	ContactID	int	NO	PRI	NULL	
	CompanyID	int	YES		NULL	
	FirstName	varchar(45)	YES		NULL	
	LastName	varchar(45)	YES		NULL	
	Street	varchar(45)	YES		NULL	
	City	varchar(45)	YES		NULL	
	State	varchar(45)	YES		NULL	
	zip	varchar(10)	YES		NULL	
	IsMain	tinyint(1)	YES		NULL	
	Email	varchar(45)	YES		NULL	
	Phone	varchar(12)	YES		NULL	

Q-2 Statement to create the Employee table

- create table Employee(
 EmployeeID int primary key,
 FirstName varchar(45),
 Lastname varchar(45),
 Salary decimal(10,2),
 HireDate date,
 JobTitle varchar(45),
 Email varchar(45),
 Phone varchar(12)
);

Result Grid						
Filter Rows:		Export:  Wrap Cell Content: 				
	Field	Type	Null	Key	Default	Extra
▶	EmployeeID	int	NO	PRI	NULL	
	FirstName	varchar(45)	YES		NULL	
	Lastname	varchar(45)	YES		NULL	
	Salary	decimal(10,2)	YES		NULL	
	HireDate	date	YES		NULL	
	JobTitle	varchar(45)	YES		NULL	
	Email	varchar(45)	YES		NULL	
	Phone	varchar(12)	YES		NULL	

Q-3 Statement to create the ContactEmployee table

- create table ContactEmployee(
 ContactEmployeeID int primary key,
 ContactID int,
 EmployeeID int,
 ContactDate Date,
 Descriptions varchar(100)
);

Result Grid						
		Filter Rows:			Export:	Wrap Cell Content:
	Field	Type	Null	Key	Default	Extra
▶	ContactEmployeeID	int	NO	PRI	NULL	
	ContactID	int	YES		NULL	
	EmployeeID	int	YES		NULL	
	ContactDate	date	YES		NULL	
	Descriptions	varchar(100)	YES		NULL	

Q -4 In the Employee table, the statement that changes Lesley Bland's phone number to 215-555-8800

- update Employee
set phone = "215-555-8800"
where FirstName = "Lesly" and Lastname = "Bland";

[illegible]

Q-5 In the Company table, the statement that changes the name of “Urban Outfitters, Inc.” to “Urban Outfitters” .

- update Company
set CompanyName = "Urban Outfitters"
where CompanyName = "Urban Outfitter's,Inc";

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	CompanyID	CompanyName	Street	City	State	zip
▶	101	Urban Outfitters	88 Wall Street	Newyork	NY	330-315
	102	Green Leaf Grocers	124 Innovation Dr	Birlin	BN	220-225
	103	Pranam Technologies	109 Silicon Blvdt	Headingly	HD	440-445
	104	Toll Brothers	95 Wall Street	Gabba	GB	331-385
★	NULL	NULL	NULL	NULL	NULL	NULL

Q-6 In ContactEmployee table, the statement that removes Dianne Connor's contact event with Jack Lee (one statement).

- with Emp_name as(
select
c.contactEmployeeId,c.ContactId,e.firstname,e.lastname
from employee e
join contactemployee c
on e.employeeid = c.employeeid
where Firstname = "Diana" and lastname = "Corner"
)
delete et
from contact et
join Emp_name en
on et.contactid = en.contactid
where en.firstname = "Diana" and et.firstname = "Jack";

[illegible]

Q - 7 Write the SQL SELECT query that displays the names of the employees that have contacted Toll Brothers (one statement).

- ```
select e.Firstname
from Company co
join contact cn
on co.companyId = cn.companyid
join contactemployee ce
on cn.contactid = ce.contactid
join employee e
on ce.employeeid = e.employeeid
where co.companyname = "Toll Brothers";
```

| Result Grid |           | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|-----------|--------------|---------|--------------------|
|             | Firstname |              |         |                    |
| ▶           | Ben       |              |         |                    |
|             | Joe       |              |         |                    |



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## Module: 4 Working with Database Using SQL

Q-8 What is the significance of "%" and "\_" operators in the Like statement.

Sol<sup>n</sup> (%) - Percent Sign:-

- Represent zero, one or many characters.
- It is used when you want to match any number of characters (including none).

→ ("\_") - Underscore.

- Represents a single character only.
- Use it when you want to match exactly one character in position.

Q-9 Explain normalization in the context of databases.

Sol<sup>n</sup> Normalization is the process of organizing data to reduce redundancy (duplicate data) and improve data integrity. It involves structuring a database in such a way that dependencies are properly enforced by dividing large tables into smaller, related tables.



Q-10 What does a join in MySQL mean?

Ans In MySQL, a Join is used to combine rows from two or more tables ~~based~~ based on a related column between them. It's a way to fetch data that is logically connected but stored in different tables.

Q-11 What do you understand about DDL, DCL and DML in MySQL?

Ans 1] DDL :- Data Definition Language.

- DDL commands are used to define and modify the structure of database objects like tables, schemas, indexes etc.

- Ex. Create, Alter, Drop

2] DML :- Data Manipulation Language.

- DML commands are used to manipulate the data stored in tables. This operation can be rollback if within a transaction.

- Ex. Select, Insert, Update, Delete.

3]. DCL :- Data Control Language..

- DCL commands are used to control access the data and database system.
- Ex. Grant, Revoke.

Q-12 What is the role of the MySQL JOIN clause in a query, and what are some common types of joins?

Sol<sup>n</sup> Role of the join clause in a Query:-

- Combine related data from different tables.
- Allows you to follow relationship.
- Helps to maintain normalized database design without sacrificing query capability.
- Reduce data redundancy while still enabling complex data retrieval.

→ Common Types of JOIN's in MySQL:-

- 1] INNER JOIN
- 2] LEFT JOIN
- 3] RIGHT JOIN
- 4] FULL Outer JOIN
- 5] CROSS JOIN