

1. Retrieve all customers from the "Customers" table.

Ans.

The screenshot shows the MySQL Workbench interface with the 'northwind' schema selected. In the query editor, the following SQL code is entered:

```

1 • SHOW TABLES;
2 # Q.1 Retrieve all customers from the "Customers" table.
3 • SELECT * FROM Customers;
4
5 # Q.2 Retrieve the names of all employees from the "Employees" table.

```

The results grid displays the data from the 'Customers' table:

CustomerID	CompanyName	ContactName	ContactTitle	Address	City	Region	PostalCode	Country	Phone
ALFKI	Alfreds Futterkiste	Maria Anders	Sales Representative	Obere Str. 57	Berlin	WNL	12209	Germany	030-0074321
ANATR	Ana Trujillo Emparedados y helados	Ana Trujillo	Owner	Avda. de la Constitución 2222	México D.F.	WNL	05021	Mexico	(5) 555-3932
ANTON	Antonio Moreno Taquería	Antonio Moreno	Owner	Mataderos 2312	México D.F.	WNL	05023	Mexico	(5) 555-3932
AROUT	Around the Horn	Thomas Hardy	Sales Representative	120 Hanover Sq.	London	WNL	WA1 1DP	UK	(17) 555-7788
BERGS	Berglunds snabbköp	Christina Berglund	Order Administrator	Berguvsgatan 8	Luleå	WNL	S-995 22	Sweden	021-12 34 65
BLAUS	Blauer See Delikatessen	Hanna Moos	Sales Representative	Forststr. 57	Mannheim	WNL	68306	Germany	0621-08460
BLOWP	Blondel père et fils	Frédérique Citeaux	Marketing Manager	24, place Kléber	Strasbourg	WNL	67000	France	86.60.15.31
BOLID	Bólido Chocolates preparadas	Martin Sommer	Owner	C/Araquil, 67	Madrid	WNL	28023	Spain	(91) 555-22 82
BONAP	Bon app'	Laurence Lebihan	Owner	12, rue des Bouchers	Marseille	WNL	13008	France	91.24.45.40
BOTTM	Bottom-Dollar Markets	Elizabeth Lincoln	Accounting Manager	23 Tsawassen Blvd.	Tsawassen	BC	T2F 8M4	Canada	(604) 555-4729
BSBEV	B's Beverages	Victoria Ashworth	Sales Representative	Faunleroy Circus	London	EC2	SNT	UK	(17) 555-1216
CACTU	Cactus Comidas para llevar	Patricia Simpson	Sales Agent	Cerrito 333	Buenos Aires	WNL	1010	Argentina	(1) 135-5555
CENTC	Centro comercial Móvilzuma	Franisco Chang	Marketing Manager	Sierras de Granada 9993	México D.F.	WNL	05022	Mexico	(5) 555-3392
CHOPS	Chop-suey Chinese	Yang Wang	Owner	Hauptstr. 29	Bern	WNL	3012	Switzerland	0452-076545
COMMI	Comércio Mineiro	Pedro Afonso	Sales Associate	Av. dos Lusíadas, 23	São Paulo	SP	05432-043	Brazil	(11) 555-7647
CONSH	Consolidated Holdings	Elizabeth Brown	Sales Representative	Berkley Gardens 12	London	WNL	WC1 6LT	UK	(17) 555-2282
DRAAC	Drachenblut Delikatessen	Sven Ottieb	Order Administrator	Bakerweg 21	Aachen	WNL	52066	Germany	0241-039123
DUMON	Du monde entier	Janine Labrune	Owner	67, rue des Cinquante Otages	Nantes	WNL	44000	France	40.67.88.88
EASTC	Eastern Connection	Ann Devon	Sales Agent	35 King George	London	WNL	WC3 6FW	UK	(17) 555-0297
ERNSH	Ernst Handel	Roland Mendel	Sales Manager	Kirchgasse 6	Graz	WNL	8010	Austria	7675-3425
FAMEA	Familia Arquibaldo	Aria Cruz	Marketing Assistant	Rua Orós, 92	São Paulo	SP	05442-030	Brazil	(11) 555-9857

The output pane shows the results of the executed queries:

```

4
5 #Q.2 Retrieve the names of all employees from the "Employees" table.
6 • SELECT FirstName, LastName FROM Employees;
7
8 # Q.3 Retrieve all products from the "Products" table.

```

```

Action Output
# Time Action
1 11:44:29 SELECT * FROM Customers LIMIT 0, 1000
2 11:45:52 SELECT * FROM Customers LIMIT 0, 1000
3 11:45:52 SELECT * FROM Employees LIMIT 0, 1000
4 11:45:52 SELECT * FROM Employees LIMIT 0, 1000
5 11:46:37 SELECT FirstName, LastName FROM Employees LIMIT 0, 1000

```

2. Retrieve the names of all employees from the "Employees" table.

Ans.

The screenshot shows the MySQL Workbench interface with the 'northwind' schema selected. In the query editor, the following SQL code is entered:

```

4
5 #Q.2 Retrieve the names of all employees from the "Employees" table.
6 • SELECT FirstName, LastName FROM Employees;
7
8 # Q.3 Retrieve all products from the "Products" table.

```

The results grid displays the data from the 'Employees' table:

FirstName	LastName
Nancy	Davolio
Andrew	Fuller
Janet	Leverling
Margaret	Peachcock
Steven	Buchanan
Michael	Suyama
Robert	King
Laura	Callahan
Anne	Dodsworth

The output pane shows the results of the executed queries:

```

4
5 #Q.2 Retrieve the names of all employees from the "Employees" table.
6 • SELECT FirstName, LastName FROM Employees;
7
8 # Q.3 Retrieve all products from the "Products" table.

```

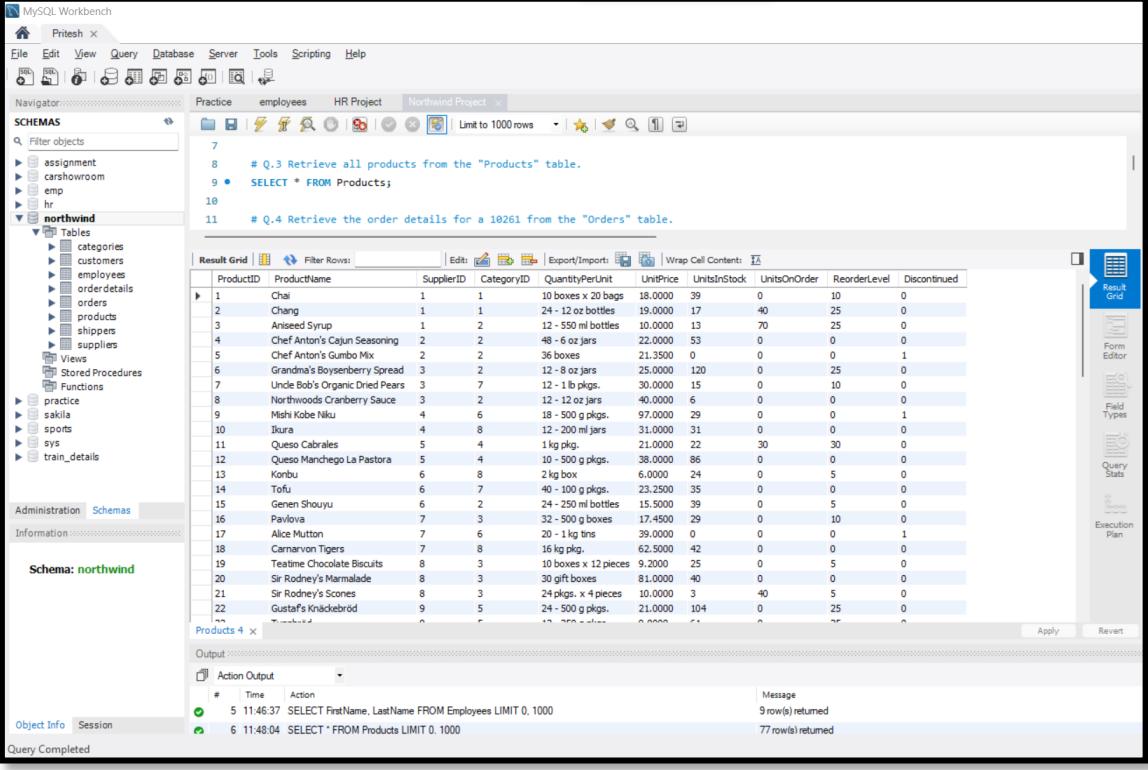
```

Action Output
# Time Action
1 11:45:52 SELECT * FROM Customers LIMIT 0, 1000
2 11:45:52 SELECT * FROM Employees LIMIT 0, 1000
3 11:45:52 SELECT * FROM Employees LIMIT 0, 1000
4 11:45:52 SELECT * FROM Employees LIMIT 0, 1000
5 11:46:37 SELECT FirstName, LastName FROM Employees LIMIT 0, 1000

```

3. Retrieve all products from the "Products" table.

Ans.



The screenshot shows the MySQL Workbench interface with the 'northwind' database selected. In the central pane, the results of the following query are displayed:

```

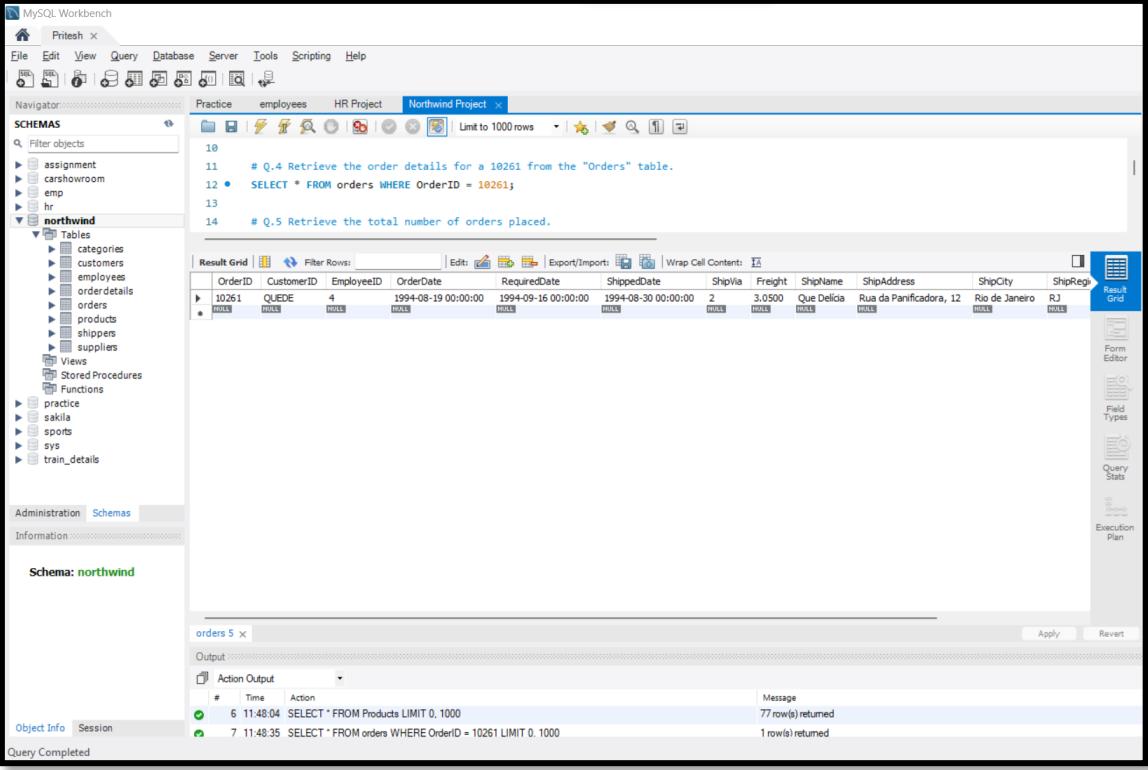
7
8 # Q.3 Retrieve all products from the "Products" table.
9 • SELECT * FROM Products;
10
11 # Q.4 Retrieve the order details for a 10261 from the "Orders" table.

```

The results grid shows 77 rows of product data, including columns like ProductID, ProductName, SupplierID, CategoryID, QuantityPerUnit, UnitPrice, UnitsInStock, UnitsOnOrder, ReorderLevel, and Discontinued. The 'Output' pane at the bottom shows the execution of the query and its return of 77 rows.

4. Retrieve the order details for a 10261 from the "Orders" table.

Ans.



The screenshot shows the MySQL Workbench interface with the 'northwind' database selected. In the central pane, the results of the following query are displayed:

```

10
11 # Q.4 Retrieve the order details for a 10261 from the "Orders" table.
12 • SELECT * FROM orders WHERE OrderID = 10261;
13
14 # Q.5 Retrieve the total number of orders placed.

```

The results grid shows one row of order details for OrderID 10261. The 'Output' pane at the bottom shows the execution of the query and its return of 1 row(s).

5. Retrieve the total number of orders placed.

Ans.

The screenshot shows the MySQL Workbench interface with the 'northwind' schema selected. In the central query editor, the following SQL code is written:

```

13
14 # Q.5 Retrieve the total number of orders placed.
15 • SELECT COUNT(*) AS TotalOrders FROM Orders;
16
17 # Q.6 Retrieve the average unit price of all products.

```

The result grid displays the output of the last query:

TotalOrders
830

Below the result grid, the 'Object Info' tab shows two rows of execution details:

#	Time	Action	Message
7	11:48:35	SELECT * FROM orders WHERE OrderID = 10261 LIMIT 0, 1000	1 row(s) returned
8	11:49:03	SELECT COUNT(*) AS TotalOrders FROM Orders LIMIT 0, 1000	1 row(s) returned

6. Retrieve the average unit price of all products.

Ans.

The screenshot shows the MySQL Workbench interface with the 'northwind' schema selected. In the central query editor, the following SQL code is written:

```

16
17 # Q.6 Retrieve the average unit price of all products.
18 • SELECT AVG(UnitPrice) AS AverageUnitPrice FROM Products;
19
20 # Q.7 Retrieve the orders placed by a ROMNEY.

```

The result grid displays the output of the last query:

AverageUnitPrice
28.86636364

Below the result grid, the 'Object Info' tab shows two rows of execution details:

#	Time	Action	Message
8	11:49:03	SELECT COUNT(*) AS TotalOrders FROM Orders LIMIT 0, 1000	1 row(s) returned
9	11:49:32	SELECT AVG(UnitPrice) AS AverageUnitPrice FROM Products LIMIT 0, 1000	1 row(s) returned

7. Retrieve the orders placed by a ROMEY.

Ans.

The screenshot shows the MySQL Workbench interface with the 'northwind' database selected. In the central pane, a query window displays the following code and results:

```

19
20 # Q.7 Retrieve the orders placed by a ROMEY.
21 • SELECT * FROM Orders WHERE CustomerID = 'ROMEY';
22
23 # Q.8 Retrieve the products with a unit price greater than $50.

```

The results grid shows five rows of order data for customer 'ROMEY'. The columns include OrderID, CustomerID, EmployeeID, OrderDate, RequiredDate, ShippedDate, ShipVia, Freight, ShipName, ShipAddress, ShipCity, ShipRegion, and ShipPostalCode. The data is as follows:

OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName	ShipAddress	ShipCity	ShipRegion	ShipPostalCode
10281	ROMEY	4	1994-09-14 00:00:00	1994-09-28 00:00:00	1994-09-21 00:00:00	1	2.9400	Romero y tomillo	Gran Vía, 1	Madrid	Spain	28001
10282	ROMEY	4	1994-09-15 00:00:00	1994-10-13 00:00:00	1994-09-21 00:00:00	1	12.6900	Romero y tomillo	Gran Vía, 1	Madrid	Spain	28001
10306	ROMEY	1	1994-10-17 00:00:00	1994-11-14 00:00:00	1994-10-24 00:00:00	3	7.5600	Romero y tomillo	Gran Vía, 1	Madrid	Spain	28001
10917	ROMEY	4	1996-04-01 00:00:00	1996-04-29 00:00:00	1996-04-10 00:00:00	2	8.2900	Romero y tomillo	Gran Vía, 1	Madrid	Spain	28001
11013	ROMEY	2	1996-05-09 00:00:00	1996-06-06 00:00:00	1996-05-10 00:00:00	1	32.9900	Romero y tomillo	Gran Vía, 1	Madrid	Spain	28001

Below the results, the output pane shows two queries:

```

Object Info Session
9 11:49:32 SELECT AVG(UnitPrice) AS AverageUnitPrice FROM Products LIMIT 0, 1000
10 11:49:58 SELECT * FROM Orders WHERE CustomerID = 'ROMEY' LIMIT 0, 1000

```

8. Retrieve the products with a unit price greater than \$50.

Ans.

The screenshot shows the MySQL Workbench interface with the 'northwind' database selected. In the central pane, a query window displays the following code and results:

```

22
23 # Q.8 Retrieve the products with a unit price greater than $50.
24 • SELECT * FROM Products WHERE UnitPrice > 50;
25
26 # Q.9 Retrieve the orders placed in the year 1996.

```

The results grid shows seven product entries with unit prices above \$50. The columns include ProductID, ProductName, SupplierID, CategoryID, QuantityPerUnit, UnitPrice, UnitsInStock, UnitsOnOrder, ReorderLevel, and Discontinued. The data is as follows:

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
9	Mishi Kobe Niku	4	6	18 - 500 g pkgs.	97.0000	29	0	0	1
18	Carnarvon Tigers	7	8	16 kg pkgs.	62.5000	42	0	0	0
20	Sir Rodney's Marmalade	8	3	30 gift boxes	81.0000	40	0	0	0
29	Thüringer Rostbratwurst	12	6	50 bags x 30 sausages	123.7900	0	0	0	1
38	Côte de Blaye	18	1	12 - 75 d bottles	263.5000	17	0	15	0
51	Marinipur Dried Apples	24	7	50 - 300 g pkgs.	53.0000	20	0	10	0
59	Radette Courdavault	28	4	5 kg pkgs.	55.0000	79	0	0	0

Below the results, the output pane shows two queries:

```

Object Info Session
10 11:49:58 SELECT * FROM Orders WHERE CustomerID = 'ROMEY' LIMIT 0, 1000
11 11:50:24 SELECT * FROM Products WHERE UnitPrice > 50 LIMIT 0, 1000

```

9. Retrieve the orders placed in the year 1996.

Ans.

The screenshot shows the MySQL Workbench interface with the 'Northwind Project' selected. In the 'Result Grid' pane, the results of the following query are displayed:

```

25
26 # Q.9 Retrieve the orders placed in the year 1996.
27 • SELECT * FROM Orders WHERE YEAR(OrderDate) = 1996;
28
29 # Q.10 Retrieve the total sales for each category.

```

The result grid shows a list of orders with columns: OrderID, CustomerID, EmployeeID, OrderDate, RequiredDate, ShippedDate, ShipVia, Freight, ShipName, and ShipAddress. The data includes various customers like MAISD, RATTIC, FOLK, ERNSH, etc., with their respective details.

10. Retrieve the total number of orders placed by each employee in each year from the Orders table.

Ans.

The screenshot shows the MySQL Workbench interface with the 'Northwind Project' selected. In the 'Result Grid' pane, the results of the following query are displayed:

```

28
29 # Q.10 Retrieve the total number of orders placed by each employee in each year from the Orders table.
30 • SELECT YEAR(OrderDate) AS OrderYear, EmployeeID, COUNT(*) AS TotalOrders FROM Orders
31 GROUP BY YEAR(OrderDate), EmployeeID ORDER BY OrderYear, EmployeeID;
32

```

The result grid shows the 'OrderYear' and 'EmployeeID' columns along with the 'TotalOrders' count. The data shows that in 1994, employee 1 placed 17 orders, employee 2 placed 12, and so on. By 1996, employee 4 had placed 54 orders.

11. Retrieve the number of orders placed by each customer.

Ans.

```

MySQL Workbench
File Edit View Query Database Server Tools Scripting Help
Navigator: Practice employees HR Project Northwind Project
SCHEMAS: Filter objects
northwind Tables: categories customers employees orderdetails orders products shippers supplies Views Stored Procedures Functions
Schema: northwind
Result Grid: CustomerID TotalOrders
ALFKI 6
ANATR 4
ANTON 7
AROUT 13
BERGS 18
BLAUS 7
BLOTP 11
BOLID 3
BONAP 17
BOTTM 14
BSBEV 10
CACTU 6
CENTC 1
CHOPS 8
COMMI 5
CONSH 3
DRACD 6
DUMON 4
EASTC 8
ERNSH 30
FAMIA 7
FOLIG 5
...
Result 12 x
Output: Action Output
# Time Action Message
19 11:53:45 SELECT * FROM northwind.orders LIMIT 0, 1000 830 row(s) returned
20 11:56:15 SELECT CustomerID, COUNT(*) AS TotalOrders FROM Orders GROUP BY CustomerID LIMIT 0, 1000 89 row(s) returned
Object Info Session
Query Completed
  
```

12. Retrieve the products with no units in stock.

Ans.

```

MySQL Workbench
File Edit View Query Database Server Tools Scripting Help
Navigator: Practice employees HR Project Northwind Project
SCHEMAS: Filter objects
northwind Tables: categories customers employees orderdetails orders products shippers supplies Views Stored Procedures Functions
Schema: northwind
Result Grid: ProductID ProductName SupplierID CategoryID QuantityPerUnit UnitPrice UnitsInStock UnitsOnOrder ReorderLevel Discontinued
5 Chef Anton's Gumbo Mix 2 2 36 boxes 21.3500 0 0 0 1
17 Alice Mutton 7 6 20 - 1kg tins 39.0000 0 0 0 1
29 Thüringer Rostbratwurst 12 6 50 bags x 30 sausgs. 123.7900 0 0 0 1
31 Gorgonzola Telino 14 4 12 - 100 g plgs 12.5000 0 70 20 0
53 Perth Pasties 24 6 48 pieces 32.8000 0 0 0 1
NULL NULL NULL NULL NULL NULL NULL NULL NULL
Result 13 x
Output: Action Output
# Time Action Message
20 11:56:15 SELECT CustomerID, COUNT(*) AS TotalOrders FROM Orders GROUP BY CustomerID LIMIT 0, 1000 89 row(s) returned
21 11:57:06 SELECT * FROM Products WHERE UnitsInStock = 0 LIMIT 0, 1000 5 row(s) returned
Object Info Session
Query Completed
  
```

13. Retrieve the customers who have a fax number.

Ans.

The screenshot shows the MySQL Workbench interface with the 'northwind' database selected. In the central pane, a query window displays the following code and results:

```

40
41 # Q.13 Retrieve the customers who have a fax number.
42 • SELECT * FROM Customers WHERE Fax IS NOT NULL;
43
44 # Q.14 Retrieve the employees who were born after 1955.

```

Result Grid:

CustomerID	CompanyName	ContactName	ContactTitle	Address	City	Region	PostalCode	Country	Phone
ALFKI	Alfreds Futterkiste	Maria Anders	Sales Representative	Obere Str. 57	Berlin	HULL	12209	Germany	030-0074321
ANATR	Ana Trujillo Emparedados y helados	Ana Trujillo	Owner	Avenida de la Constitución 2222	México D.F.	HULL	05021	Mexico	(5) 555-4729
AROUT	Around the Horn	Thomas Hardy	Sales Representative	120 Hanover Sq.	London	HULL	W1 1DP	UK	(171) 555-778
BERGS	Berglunds snabbköp	Christina Berglund	Order Administrator	Berguvsvägen 8	Luleå	HULL	9-982 22	Sweden	0921-12-34-65
BLAUS	Blauer See Delicatesse	Hanna Moos	Sales Representative	Forsterstr. 57	Mannheim	HULL	68305	Germany	0611-08460
BLOTP	Blondel père et fils	Frédérique Citeaux	Marketing Manager	24, place Kléber	Strasbourg	HULL	67000	France	88-60-15-31
BOLID	Bólido Comidas preparadas	Martin Sommer	Owner	C/ Araquil, 67	Madrid	HULL	28023	Spain	(91) 555-22-8
BONAP	Bon app!	Laurence Lebihan	Owner	12, rue des Bouchers	Marseille	HULL	13008	France	91-24-45-40
BOTTM	Bottom-Dollar Markets	Elizabeth Lincoln	Accounting Manager	23 Tsawassen Blvd.	Tsawassen	BC	T2F 8M4	Canada	(604) 555-472
CACTU	Cactus Comidas para llevar	Patricia Simpson	Sales Agent	Cerro 333	Buenos Aires	HULL	1010	Argentina	(1) 135-555
CENTC	Centro comercial Moctezuma	Francisco Chang	Marketing Manager	Sierras de Granada 9993	México D.F.	HULL	05022	Mexico	(5) 555-3392
CONSH	Consolidated Holdings	Elizabeth Brown	Sales Representative	Berkley Gardens 12. Brewery	London	HULL	WX1 6LT	UK	(171) 555-228
DRACD	Drachenblut Delicatesse	Sven Ottieb	Order Administrator	Walsenweg 21	Aachen	HULL	52066	Germany	0241-039123
DUMON	Du monde entier	Jeanne Larbune	Owner	67, rue des Cinquante Otages	Nantes	HULL	44000	France	40-67-88-88
EASTC	Eastern Connection	Ann Devost	Sales Agent	35 King George	London	HULL	WX3 6FW	UK	(171) 555-029
ERNSH	Ernst Handel	Roland Mendel	Sales Manager	Kirchgasse 6	Graz	HULL	8010	Austria	7675-3425
FISSA	FISSA Fabrica Inter. Sicalchicas S.A.	Diego Roel	Accounting Manager	C/ Moralarzal, 86	Madrid	HULL	28034	Spain	(91) 555-94+
FOLIG	Folies gourmandes	Marine Rancé	Assistant Sales Agent	184, chaussée de Tournai	Lille	HULL	59000	France	20-16-10-16
FRANK	Frankenversand	Peter Franken	Marketing Manager	Berliner Platz 43	München	HULL	80805	Germany	089-0877310
FRANR	France restauration	Carine Schmit	Marketing Manager	54, rue Royale	Nantes	HULL	44000	France	49-32-21-21
FRANS	Franchi S.p.A.	Paolo Accorti	Sales Representative	Via Monte Bianco 34	Torino	HULL	10100	Italy	011-4988260

Output:

#	Time	Action	Message
21	11:57:06	SELECT * FROM Products WHERE UnitsInStock = 0 LIMIT 0, 1000	5 row(s) returned
22	11:57:39	SELECT * FROM Customers WHERE Fax IS NOT NULL LIMIT 0, 1000	69 row(s) returned

14. Retrieve the employees who were born after 1955.

Ans.

The screenshot shows the MySQL Workbench interface with the 'northwind' database selected. In the central pane, a query window displays the following code and results:

```

41 # Q.13 Retrieve the customers who have a fax number.
42 • SELECT * FROM Customers WHERE Fax IS NOT NULL;
43
44 # Q.14 Retrieve the employees who were born after 1955.
45 • SELECT * FROM Employees WHERE YEAR(BirthDate) > 1955;

```

Result Grid:

EmployeeID	Lastname	Firstname	Title	TitleOfCourtesy	BirthDate	HireDate	Address	City	Region	PostalCode	Country
3	Leverling	Janet	Sales Representative	Ms.	1963-08-30 00:00:00	1992-04-01 00:00:00	722 Moss Bay Blvd.	Kirkland	WA	98033	USA
6	Suyana	Michael	Sales Representative	Mr.	1963-07-02 00:00:00	1993-10-17 00:00:00	Coventry House Mln...	London	HULL	EC2 7JR	UK
7	King	Robert	Sales Representative	Mr.	1960-05-29 00:00:00	1994-01-02 00:00:00	Edgeham Hollow Win...	London	HULL	RG1 9SP	UK
8	Callahan	Laura	Inside Sales Coordinator	Ms.	1958-01-09 00:00:00	1994-03-05 00:00:00	4726 - 11th Ave. N.E.	Seattle	WA	98105	USA
9	Dodsworth	Anne	Sales Representative	Ms.	1966-01-27 00:00:00	1994-11-15 00:00:00	7 Houndstooth Rd.	London	HULL	WG2 7LT	UK
•	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL

Output:

#	Time	Action	Message
22	11:57:39	SELECT * FROM Customers WHERE Fax IS NOT NULL LIMIT 0, 1000	69 row(s) returned
23	11:58:07	SELECT * FROM Employees WHERE YEAR(BirthDate) > 1955 LIMIT 0, 1000	5 row(s) returned

15. Retrieve all customers who have placed at least 5 orders from the Customers and Orders tables.

Ans.

```

46 # Q.15 Retrieve all customers who have placed at least 5 orders from the Customers and Orders tables.
47 • SELECT c.CustomerID, c.ContactName, COUNT(*) AS TotalOrders FROM Customers c
48 INNER JOIN Orders o ON c.CustomerID = o.CustomerID GROUP BY c.CustomerID, c.ContactName HAVING COUNT(*) >= 5;
49

```

CustomerID	ContactName	TotalOrders
ALFKI	Maria Anders	6
ANTON	Antonio Moreno	7
AROUT	Thomas Hardy	13
BERGS	Christina Berglund	18
BLAUS	Hanna Moos	7
BLOTP	Frédérique Citeaux	11
BONAP	Laurence Lebihan	17
BOTTM	Elizabeth Lincoln	14
BSBEV	Victoria Ashworth	10
CACTU	Patrícia Simpson	6
CHOPS	Yang Wang	8
COMMI	Pedro Afonso	5
DRACD	Sven Ottleb	6
EASTC	Ann Devitt	8
ERNSH	Roland Mendel	30
FAMIA	Aria Cruz	7
FOLIG	Marline Rancé	5
FOLKO	Maria Larsson	19
FRANK	Peter Franken	15
FRANS	Paolo Accorti	6
FURIB	Lino Rodriguez	8
GALDI	Eduardo Saavedra	5

Result 27 X

Action Output

#	Time	Action	Message
38	12:09:27	SELECT * FROM Employees WHERE YEAR(BirthDate) > 1955 LIMIT 0, 1000	5 row(s) returned
39	12:09:29	SELECT c.CustomerID, c.ContactName, COUNT(*) AS TotalOrders FROM Customers c INNER JOIN Orders o ... 73 row(s) returned	

Object Info Session Query Completed

16. Retrieve the orders that were shipped to a USA.

Ans.

```

50
51 # Q.16 Retrieve the orders that were shipped to a USA.
52 • SELECT * FROM Orders WHERE ShipCountry = 'USA';
53
54 # Q.17 Retrieve the employees who are in the sales department.

```

OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName	ShipAddress	ShipCity
10262	RATTIC	8	1994-08-22 00:00:00	1994-09-19 00:00:00	1994-08-25 00:00:00	3	48.2900	Rattlesnake Canyon Grocery	2817 Milton Dr.	Albuquerque
10269	WHITC	5	1994-08-31 00:00:00	1994-09-14 00:00:00	1994-09-09 00:00:00	1	4.5600	White Clover Markets	1029 - 12th Ave. S.	Seattle
10271	SPLIR	6	1994-09-01 00:00:00	1994-09-29 00:00:00	1994-09-30 00:00:00	2	4.5400	Split Rail Beer & Ale	P.O. Box 555	Lander
10272	RATTIC	6	1994-09-02 00:00:00	1994-09-30 00:00:00	1994-09-06 00:00:00	2	98.0300	Rattlesnake Canyon Grocery	2817 Milton Dr.	Albuquerque
10294	RATTIC	4	1994-09-30 00:00:00	1994-10-28 00:00:00	1994-10-06 00:00:00	2	147.2600	Rattlesnake Canyon Grocery	2817 Milton Dr.	Albuquerque
10305	OLWDW	8	1994-10-14 00:00:00	1994-11-11 00:00:00	1994-11-09 00:00:00	3	257.6200	Old World Delicatessen	2743 Bering St.	Anchor
10307	LONEP	2	1994-10-18 00:00:00	1994-11-15 00:00:00	1994-10-26 00:00:00	2	0.5600	Lonesome Pine Restaurant	89 Chiaroscuro Rd.	Portland
10310	THEBI	8	1994-10-21 00:00:00	1994-11-18 00:00:00	1994-10-28 00:00:00	2	17.5200	The Big Cheese	89 Jefferson Way ...	Portland
10314	RATTIC	1	1994-10-26 00:00:00	1994-11-23 00:00:00	1994-11-04 00:00:00	2	74.1600	Rattlesnake Canyon Grocery	2817 Milton Dr.	Albuquerque
10316	RATTIC	1	1994-10-28 00:00:00	1994-11-25 00:00:00	1994-11-08 00:00:00	3	150.1500	Rattlesnake Canyon Grocery	2817 Milton Dr.	Albuquerque
10317	LONEP	6	1994-10-31 00:00:00	1994-11-28 00:00:00	1994-11-10 00:00:00	1	12.6900	Lonesome Pine Restaurant	89 Chiaroscuro Rd.	Portland
10324	SAVEA	9	1994-11-08 00:00:00	1994-12-06 00:00:00	1994-11-10 00:00:00	1	214.2700	Save-a-lot Markets	187 Suffolk Ln.	Boise
10329	SPLIR	4	1994-11-15 00:00:00	1994-12-27 00:00:00	1994-11-23 00:00:00	2	191.7600	Split Rail Beer & Ale	P.O. Box 555	Lander
10338	OLWDW	4	1994-11-25 00:00:00	1994-12-23 00:00:00	1994-11-29 00:00:00	3	84.2100	Old World Delicatessen	2743 Bering St.	Anchor
10344	WHITC	4	1994-12-02 00:00:00	1994-12-30 00:00:00	1994-12-06 00:00:00	2	23.2900	White Clover Markets	1029 - 12th Ave. S.	Seattle
10346	RATTIC	3	1994-12-06 00:00:00	1995-01-17 00:00:00	1994-12-09 00:00:00	3	142.0800	Rattlesnake Canyon Grocery	2817 Milton Dr.	Albuquerque
10349	SPLIR	7	1994-12-09 00:00:00	1995-01-04 00:00:00	1994-12-16 00:00:00	1	8.6300	Split Rail Beer & Ale	P.O. Box 555	Lander
10369	SPLIR	8	1995-01-02 00:00:00	1995-01-30 00:00:00	1995-01-09 00:00:00	2	195.6800	Split Rail Beer & Ale	P.O. Box 555	Lander
10375	HUNGC	3	1995-01-06 00:00:00	1995-02-03 00:00:00	1995-01-09 00:00:00	2	20.1200	Hungry Coyote Import Store	City Center Plaza 5...	Elgin
10385	SPLIR	1	1995-01-17 00:00:00	1995-02-14 00:00:00	1995-01-23 00:00:00	2	30.9600	Split Rail Beer & Ale	P.O. Box 555	Lander
10393	SAVEA	1	1995-01-25 00:00:00	1995-02-22 00:00:00	1995-02-03 00:00:00	3	126.5600	Save-a-lot Markets	187 Suffolk Ln.	Boise

Orders 17 X

Action Output

#	Time	Action	Message
25	11:58:50	SELECT * FROM northwind.orders LIMIT 0, 1000	830 row(s) returned
26	11:59:33	SELECT * FROM Orders WHERE ShipCountry = 'USA' LIMIT 0, 1000	122 row(s) returned

Object Info Session Query Completed

17. Retrieve the employees who are in the sales department.

Ans.

```

MySQL Workbench - Pritesh
File Edit View Query Database Server Tools Scripting Help
Navigator: Practice employees HR Project Northwind Project
SCHEMAS: Filter objects
northwind Tables: categories customers employees orderdetails orders products shippers supplies Views Stored Procedures Functions practice sakila sports sys train_details
Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |
EmployeeID LastName FirstName Title TitleOfCourtesy BirthDate HireDate Address City Region PostalCode
1 Davolio Nancy Sales Representative Ms. 1948-12-08 00:00:00 1992-05-01 00:00:00 507 - 20th Ave. E, Apt. 2A Seattle WA 98122 US
2 Fuller Andrew Vice President, Sales Dr. 1952-02-19 00:00:00 1992-08-14 00:00:00 908 W. Capital Way Tacoma WA 98401 US
3 Leverling Janet Sales Representative Ms. 1963-08-30 00:00:00 1992-04-01 00:00:00 722 Moss Bay Blvd. Kirkland WA 98033 US
4 Peacock Margaret Sales Representative Mrs. 1937-09-19 00:00:00 1993-05-03 00:00:00 4110 Old Redmond Rd. Redmond WA 98052 US
5 Buchanan Steven Sales Manager Mr. 1955-03-04 00:00:00 1993-10-17 00:00:00 14 Garrett Hill London NULL SW1 3JR UK
6 Suyama Michael Sales Representative Mr. 1963-07-02 00:00:00 1993-10-17 00:00:00 Coventry House Miner... London NULL EC2 7JR UK
7 King Robert Sales Representative Mr. 1960-05-29 00:00:00 1994-01-02 00:00:00 Edgeham Hollow Winc... London NULL RG1 9SP UK
8 Callahan Laura Inside Sales Coordinator Ms. 1958-01-09 00:00:00 1994-03-05 00:00:00 4726 - 11th Ave. N.E. Seattle WA 98105 US
9 Dodsworth Anne Sales Representative Ms. 1966-01-27 00:00:00 1994-11-15 00:00:00 7 Houndstooth Rd. London NULL WG2 7LT UK

```

Employees 18 x

Action Output:

#	Time	Action	Message
26	11:59:33	SELECT * FROM Orders WHERE ShipCountry = 'USA' LIMIT 0, 1000	122 row(s) returned
27	12:01:05	SELECT * FROM Employees WHERE Title LIKE '%Sales%' LIMIT 0, 1000	9 row(s) returned

Object Info Session

Query Completed

18. Retrieve the products that were discontinued.

Ans.

```

MySQL Workbench - Pritesh
File Edit View Query Database Server Tools Scripting Help
Navigator: Practice employees HR Project Northwind Project
SCHEMAS: Filter objects
northwind Tables: categories customers employees orderdetails orders products shippers supplies Views Stored Procedures Functions practice sakila sports sys train_details
Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |
ProductID ProductName SupplierID CategoryID QuantityPerUnit UnitPrice UnitsInStock UnitsOnOrder ReorderLevel Discontinued
5 Chef Anton's Gumbo Mix 2 2 36 boxes 21.3500 0 0 0 1
9 Mishi Kobe Niku 4 6 18 - 500 g pkgs. 97.0000 29 0 0 1
17 Alice Mutton 7 6 20 - 1 kg tins 39.0000 0 0 0 1
24 Guaraná Fantástica 10 1 12 - 355 ml cans 4.5000 20 0 0 1
28 Rössle Sauerkraut 12 7 25 - 825 g cans 45.6000 26 0 0 1
29 Thüringer Rosbratwurst 12 6 50 bags x 30 sausgs. 123.7900 0 0 0 1
42 Singapore Hokkien Fried Mee 20 5 32 - 1 kg pkgs. 14.0000 26 0 0 1
53 Perth Pasties 24 6 48 pieces 32.8000 0 0 0 1

```

Products 19 x

Action Output:

#	Time	Action	Message
27	12:01:05	SELECT * FROM Employees WHERE Title LIKE '%Sales%' LIMIT 0, 1000	9 row(s) returned
28	12:01:41	SELECT * FROM Products WHERE Discontinued = 1 LIMIT 0, 1000	8 row(s) returned

Object Info Session

Query Completed

19. Retrieve the customers who have placed more than 10 orders.

Ans.

The screenshot shows the MySQL Workbench interface with the 'northwind' database selected. In the 'Query' tab, the following SQL code is run:

```

59
60  # Q.19 Retrieve the customers who have placed more than 10 orders.
61 • SELECT CustomerID, COUNT(*) AS TotalOrders FROM Orders
62 GROUP BY CustomerID HAVING COUNT(*) > 10;
63

```

The results are displayed in the 'Result Grid' table:

CustomerID	TotalOrders
AROUT	13
BERGS	18
BLOTP	11
BONAP	17
BOTTM	14
BRNSH	30
FOUKO	19
FRANK	15
GREAL	11
HANAR	14
HILAA	18
HUNGO	19
KOENE	14
LAMAI	14
LEHMS	15
LILAS	14
LINOD	12
MEREP	13
QUICK	28
RATTC	18
REGSC	12
...

The output pane shows the execution details:

- Action Output: # 28 12:01:41 SELECT * FROM Products WHERE Discontinued = 1 LIMIT 0, 1000 | 8 row(s) returned
- Action Output: # 29 12:02:11 SELECT CustomerID, COUNT(*) AS TotalOrders FROM Orders GROUP BY CustomerID HAVING COUNT(*) > 10 | 28 row(s) returned

20. Retrieve the orders that contain a specific product.

Ans.

The screenshot shows the MySQL Workbench interface with the 'northwind' database selected. In the 'Query' tab, the following SQL code is run:

```

63  # Q.20 Retrieve the number of orders placed by each employee from the Orders table.
64 • SELECT EmployeeID, COUNT(*) AS TotalOrders FROM Orders
65 GROUP BY EmployeeID;
66

```

The results are displayed in the 'Result Grid' table:

EmployeeID	TotalOrders
1	123
2	96
3	127
4	156
5	42
6	67
7	72
8	104
9	43

The output pane shows the execution details:

- Action Output: # 39 12:09:29 SELECT c.CustomerID, c.ContactName, COUNT(*) AS TotalOrders FROM Customers c INNER JOIN Orders o ... 73 row(s) returned
- Action Output: # 40 12:15:02 SELECT EmployeeID, COUNT(*) AS TotalOrders FROM Orders GROUP BY EmployeeID LIMIT 0, 1000 | 9 row(s) returned