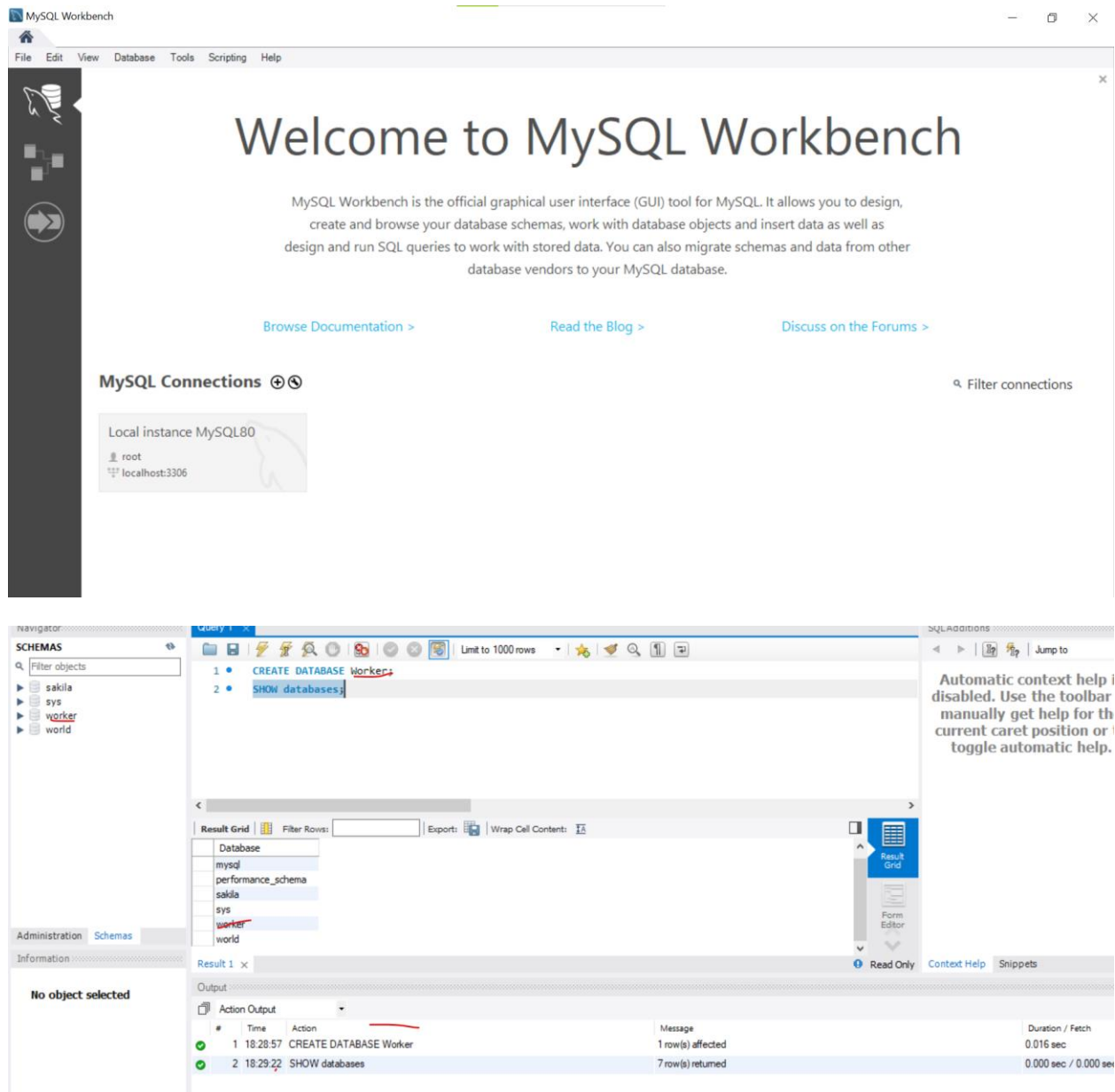


INFO 531: DATA WAREHOUSING IN THE CLOUD

ASSIGNMENT – 3

Q1. Show the screenshot of a successful installation of MySQL Software and MySQL Workbench with the latest version on your machine. Show the screenshot of the database “Worker” created.



Q2. . Create the Department table in the Worker database (table must be based on Physical Model Provided in the Assignment folder). (a) Columns, Primary Key (PK), Data Type & length, and NULL/NOT NULL need to be implemented, as provided in the Physical Model. (b) Show the table definition (DDL) that you implemented. (c) Insert the complete set of data provided in the Excel file (uploaded in the Assignment folder) and show the insert statements used. (d) Retrieve the data from the Department table by using the SELECT * statement and order by PK column(s). Show the output. Make sure you show the print screen of the complete set of the rows and columns. The rows must be ordered by PK column(s).

toggle automatic help.

```

10 • INSERT INTO Department (DepartmentID, DepartmentName) VALUES (1, 'Research & Development');
11 • INSERT INTO Department (DepartmentID, DepartmentName) VALUES (2, 'Production');
12 • INSERT INTO Department (DepartmentID, DepartmentName) VALUES (3, 'IT Support');
13 • INSERT INTO Department (DepartmentID, DepartmentName) VALUES (4, 'Operations');
14 • INSERT INTO Department (DepartmentID, DepartmentName) VALUES (5, 'Customer Service');
15 • INSERT INTO Department (DepartmentID, DepartmentName) VALUES (6, 'Purchasing');
16 • INSERT INTO Department (DepartmentID, DepartmentName) VALUES (7, 'Sales & Marketing');
17 • INSERT INTO Department (DepartmentID, DepartmentName) VALUES (8, 'Human Resource Management');
18 • INSERT INTO Department (DepartmentID, DepartmentName) VALUES (9, 'Accounting & Financing');
19 • INSERT INTO Department (DepartmentID, DepartmentName) VALUES (10, 'Legal Department');

```

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 11	18:36:20	INSERT INTO Department (DepartmentID, DepartmentName) VALUES (7, 'Sales & ...	1 row(s) affected	0.015 sec
✓ 12	18:36:20	INSERT INTO Department (DepartmentID, DepartmentName) VALUES (8, 'Human ...	1 row(s) affected	0.000 sec
✓ 13	18:36:20	INSERT INTO Department (DepartmentID, DepartmentName) VALUES (9, 'Accoun...	1 row(s) affected	0.000 sec
✓ 14	18:36:20	INSERT INTO Department (DepartmentID, DepartmentName) VALUES (10, 'Legal ...	1 row(s) affected	0.016 sec
✓ 15	18:36:45	SELECT * FROM Department ORDER BY DepartmentID LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

```

20
21 • SELECT * FROM Department ORDER BY DepartmentID;
22
23
24

```

Result Grid

DepartmentID	DepartmentName
1	Research & Development
2	Production
3	IT Support
4	Operations
5	Customer Service
6	Purchasing
7	Sales & Marketing
8	Human Resource Management

Department 2 x

Apply Revert

Q3. Create the Employee table in the Worker database (table must be based on Physical Model Provided in the Assignment folder). (a) Columns, Primary Key (PK), Data Type and length, and NULL/NOT NULL need to be implemented, as provided in the Physical Model. (b) Show the table definition (DDL) that you implemented (not in a graphical view). (c) Insert the complete set of data provided in the Excel file (uploaded in the Assignment folder) and show the insert statements used. (d) Retrieve the data from the Employee table by using the SELECT * statement and order by PK column(s). Show the output. Make sure you show the print screen of the complete set of the rows and columns. The rows must be ordered by PK column(s).

/* 3rd Question*/

```
CREATE TABLE Employee (
    EmployeeID INT PRIMARY KEY,
    FirstName VARCHAR(255) NOT NULL,
    LastName VARCHAR(255) NOT NULL,
    HireDate DATE,
    DepartmentID INT,
    FOREIGN KEY (DepartmentID) REFERENCES Department(DepartmentID)
);
```

```
43 (4, 'Nola', 'Davis', '2016-03-23', 4);
44
45 INSERT INTO Employee (EmployeeID, FirstName, LastName, HireDate, DepartmentID) VALUES
46 (5, 'Kathy', 'Cooper', '2011-11-18', 5),
47 (6, 'Tom', 'Harper', '2010-04-11', 6);
48
49 SELECT * FROM Employee ORDER BY EmployeeID;
50
51
```

EmployeeID	FirstName	LastName	HireDate	DepartmentID
1	Andy	Wong	2001-01-15	1
2	John	Wilson	2017-03-19	2
3	Vivek	Pandey	2003-11-15	3
4	Nola	Davis	2016-03-23	4
5	Kathy	Cooper	2011-11-18	5
6	Tom	Harper	2010-04-11	6

Q4. Create the Equipment table in the Worker database (table must be based on Physical Model Provided in the Assignment folder). (a) Columns, Primary Key (PK), Data Type & length, and NULL/NOT NULL need to be implemented, as provided in the Physical Model. (b) Show the table definition (DDL) that you implemented. (c) Insert the complete set of data provided in the Excel file (uploaded in the Assignment folder) and show the insert statements used. (d) Retrieve the data from the Equipment table by using the SELECT * statement and order by PK column(s). Show the output. Make sure you show the print screen of the complete set of the rows and columns. The rows must be ordered by PK column(s).

/* 4th Question*/

```
• CREATE TABLE Equipment (
    EquipmentID INT PRIMARY KEY,
    EquipmentName VARCHAR(255) NOT NULL,
    EquipmentCostAmount DECIMAL(10, 2) NOT NULL
);
```

```
71
72 • SELECT * FROM Equipment ORDER BY EquipmentID;
```

73

74 /* 5th Question*/

```
75 • CREATE TABLE EmployeeEquipment (
76     EmployeeID INT,
```

result Grid

EquipmentID	EquipmentName	EquipmentCostAmount
1	NoteBook Computers	1000.00
2	Headsets	150.00
3	Computer Monitors	5000.00
4	Multi-Function printer	100.00
5	Projector	850.00
6	Servers	1600.00
7	Internet Modem	300.00

Equipment 7 x Apply

Q5. Create the EmployeeEquipment table in the Worker database (table must be based on Physical Model Provided in the Assignment folder). (a) Columns, Primary Key (PK), Data Type & length, and NULL/NOT NULL need to be implemented, as provided in the Physical Model. (b) Show the table definition (DDL) that you implemented. (c) Insert the complete set of data provided in the Excel file (uploaded in the Assignment folder) and show the insert statements used. (d) Retrieve the data from the EmployeeEquipment table by using the SELECT * statement and order by PK column(s). Show the output. Make sure you show the print screen of the complete set of the rows and columns. The rows must be ordered by PK column(s).

```

75 • CREATE TABLE EmployeeEquipment (
76     EmployeeID INT,
77     EquipmentID INT,
78     PRIMARY KEY (EmployeeID, EquipmentID),
79     FOREIGN KEY (EmployeeID) REFERENCES Employee(EmployeeID),
80     FOREIGN KEY (EquipmentID) REFERENCES Equipment(EquipmentID)
81 );

```

```

82
83 • INSERT INTO EmployeeEquipment (EmployeeID, EquipmentID) VALUES
84     (1,1),
85     (2,1),
86     (2,3),
87     (3,1),
88     (3,2),
89     (3,3),
90     (4,1),
91     (4,2),
92     (5,1).

```

Result Grid

	EmployeeID	EquipmentID
1	1	1
2	1	1
2	3	3
3	1	1
3	2	2
3	3	3

EmployeeEquipment 8

Q6. Create the Training table in the Worker database (table must be based on Physical Model Provided in the Assignment folder). (a) Columns, Primary Key (PK), Data Type & length, and NULL/NOT NULL need to be implemented, as provided in the Physical Model. (b) Show the table definition (DDL) that you implemented. (c) Insert the complete set of data provided in the Excel file (uploaded in the Assignment folder) and show the insert statements used. (d) Retrieve the data from the Training table by using the SELECT * statement and order by PK column(s). Show the output. Make sure you show the print screen of the complete set of the rows and columns. The rows must be ordered by PK column(s).

```

• CREATE TABLE Training (
    TrainingID INT PRIMARY KEY,
    TrainingName VARCHAR(255) NOT NULL
);

• INSERT INTO Training (TrainingID, TrainingName) VALUES
(1, 'Covid-19 Awareness and Protection Training'),
(2, 'Code of Conduct Training'),
(3, 'Saftey Training'),
(4, 'Intro to python'),
(5, 'Machine Learning'),
(6, 'Microsoft Certifications'),
(7, 'Security and Privacy'),
(8, 'Product Knowledge'),
(9, 'Sales Skills')

```

```

120
121 • SELECT * FROM Training ORDER BY TrainingID;
122
123
124

```

Result Grid		Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:	Result Grid
TrainingID	TrainingName					
1	Covid-19 Awareness and Protection Training					
2	Code of Conduct Training					
3	Saftey Training					
4	Intro to python					
5	Machine Learning					
6	Microsoft Certifications					

Training 9 x Apply Revert

Q7. Create the EmployeeTraining table in the Worker database (table must be based on Physical Model Provided in the Assignment folder). (a) Columns, Primary Key (PK), Data Type & length, and NULL/NOT NULL need to be implemented, as provided in the Physical Model. (b) Show the table definition (DDL) that you implemented. (c) Insert the complete set of data provided in the Excel file (uploaded in the Assignment folder) and show the insert statements used. (d) Retrieve the data from the EmployeeTraining table by using the SELECT * statement and order by PK column(s). Show the output. Make sure you show the print screen of the complete set of the rows and columns. The rows must be ordered by PK column(s).

```

5 • CREATE TABLE EmployeeTraining (
6     EmployeeID INT,
7     TrainingID INT,
8     PRIMARY KEY (EmployeeID, TrainingID),
9     FOREIGN KEY (EmployeeID) REFERENCES Employee(EmployeeID),
0     FOREIGN KEY (TrainingID) REFERENCES Training(TrainingID)
1 );
2 • INSERT INTO EmployeeTraining (EmployeeID, TrainingID) VALUES
3     (1, 2),
4     (1, 3),
5     (2, 2),
6     (2, 4),
7     (2, 5),
8     (3, 2),
9     (3, 6),
0     (3, 7),
1     (4, 2),
2     (4, 8),
3     (4, 9),
4     (5, 2),

```

The screenshot shows a database management tool interface. On the left, the 'worker' database schema is displayed, including tables like 'department', 'employee', 'employeeequipment', 'equipment', 'training', 'Views', 'Stored Procedures', and 'Functions'. The 'employee' table is selected, showing its columns: 'EmployeeID' (int PK) and 'varchar'.

The main area displays the 'EmployeeTraining' table data, ordered by 'EmployeeID' and 'TrainingID'. The data is as follows:

EmployeeID	TrainingID
1	2
1	3
2	2
2	4
2	5
3	2
4	2
4	8
4	9
5	2

The bottom of the interface shows the 'Result Grid' with the same data, and a 'Form Editor' button on the right.

Q8. Create the Trainer table in the Worker database (table must be based on Physical Model Provided in the Assignment folder). (a) Columns, Primary Key (PK), Data Type & length, and NULL/NOT NULL need to be implemented, as provided in the Physical Model. (b) Show the table definition (DDL) that you implemented. (c) Insert the complete set of data provided in the Excel file (uploaded in the Assignment folder) and show the insert statements used. (d) Retrieve the data from the Trainer table by using the SELECT * statement and order by PK column(s). Show the output. Make sure you show the print screen of the complete set of the rows and columns. The rows must be ordered by PK column(s).

```

• CREATE TABLE Trainer (
    TrainerID INT PRIMARY KEY,
    TrainerFirstName VARCHAR(255) NOT NULL,
    TrainerLastName VARCHAR(255)
);

• INSERT INTO Trainer (TrainerID, TrainerFirstName, TrainerLastName) VALUES
(1, 'James', 'Smith'),
(2, 'Jhonny ', 'Khor'),
(3, 'Michael', 'Smith'),
(4, 'Maria ', 'Gracia'),
(5, 'John', NULL),
(6, 'Paul ', 'Dietel'),
(7, 'Mike', 'Taylor'),
(8, 'Avinash', 'Nalvani'),
(9, 'Robert', 'Smith'),
(10, 'Maria ', 'Rodriguez'),

```

177

178 • `SELECT * FROM Trainer ORDER BY TrainerID;`

179

TrainerID	TrainerFirstName	TrainerLastName
1	James	Smith
2	Jhonny	Khor
3	Michael	Smith
4	Maria	Gracia
5	John	NULL
6	Paul	Dietel

Trainer 11

Q9. Retrieve the data from the Trainer table by using the SELECT * statement with filter, WHERE TrainerLastName IS NULL. Show the output. Make sure you show the print screen of the complete set of the rows and columns. The rows must be ordered by PK column(s).

SELECT * FROM Trainer WHERE TrainerLastName IS NULL ORDER BY TrainerID;

```
179
180      /* 9th Question*/
181
182 •  SELECT * FROM Trainer WHERE TrainerLastName IS NULL ORDER BY TrainerID;
183
184
185
186
187
188
```

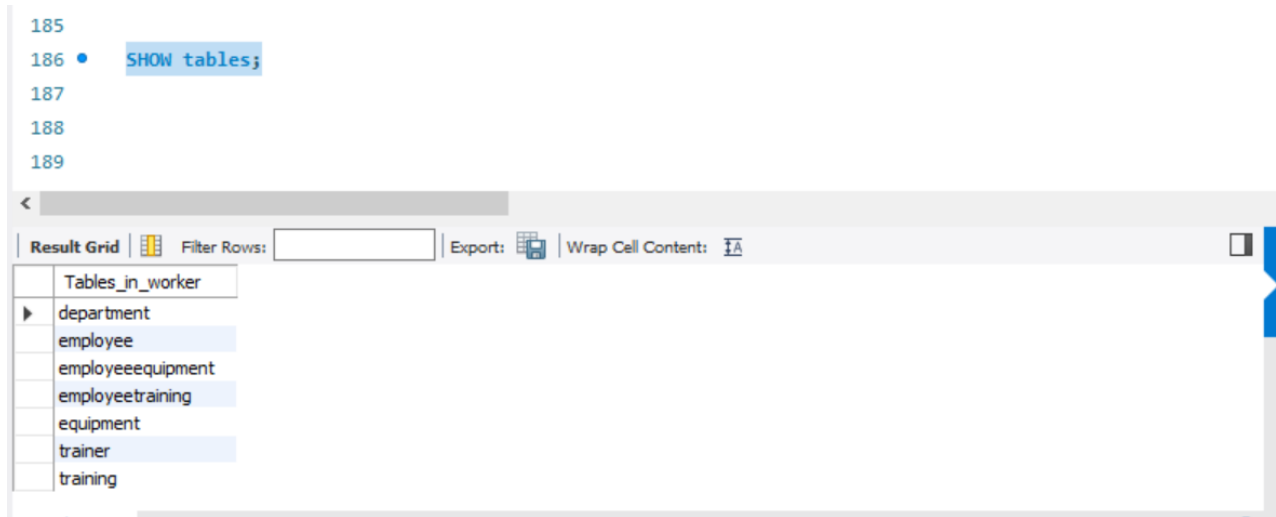
Result Grid

	TrainerID	TrainerFirstName	TrainerLastName
▶	5	John	NULL
	14	Vanessa	NULL
	15	Jordan	NULL
*	NULL	NULL	NULL

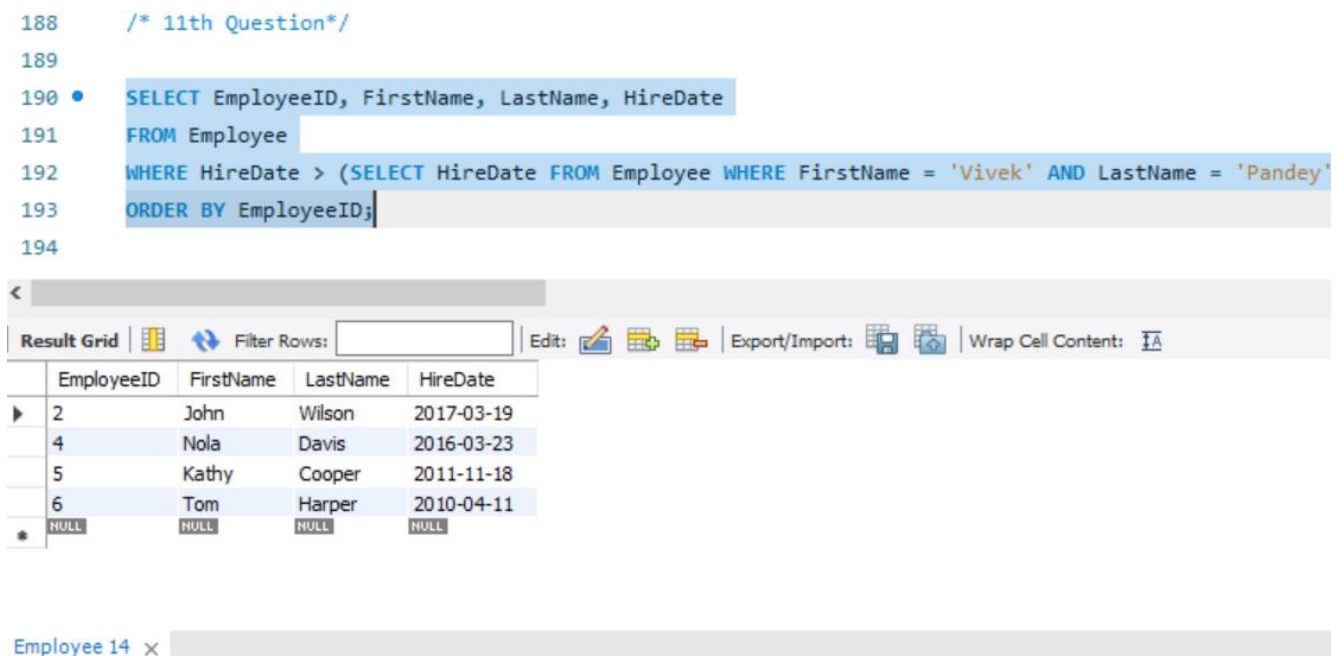
Trainer 12 x

Apply Revert

Q10. By using the SHOW tables statements, show the list of tables you have created in the Worker database. Show the screenshot of the execution of the above statements and results. Make sure you show the print screen of the complete set of the rows and columns. The rows must be ordered by PK column(s).



Q11. Write a single-row subquery to display EmployeeID, FirstName, LastName, and HireDate of employees hired after employee Vivek Pandey. Sort the results by EmployeeID. Make sure you show the print screen of the complete set of the rows, and columns as specified.







Q12. Write a query to display FirstName, LastName, and TrainingName for employee Tom Harper. Sort the results by TrainingName. Make sure you show the print screen of the complete set of the rows, and columns as specified.

```
SELECT E.FirstName, E.LastName, T.TrainingName  
  
FROM Employee E  
  
INNER JOIN EmployeeTraining ET ON E.EmployeeID = ET.EmployeeID  
  
INNER JOIN Training T ON ET.TrainingID = T.TrainingID  
  
WHERE E.FirstName = 'Tom' AND E.LastName = 'Harper'  
  
ORDER BY T.TrainingName;
```

```
194  
195      /* 12th Question */  
196  
197 •  SELECT E.FirstName, E.LastName, T.TrainingName  
198      FROM Employee E  
199      INNER JOIN EmployeeTraining ET ON E.EmployeeID = ET.EmployeeID  
200      INNER JOIN Training T ON ET.TrainingID = T.TrainingID  
201      WHERE E.FirstName = 'Tom' AND E.LastName = 'Harper'  
202      ORDER BY T.TrainingName;  
203
```

<

Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	FirstName	LastName	TrainingName
▶	Tom	Harper	Code of Conduct Training
	Tom	Harper	Travel and Expense Management

Q13. Write a query to display the complete list of Trainings, and trainers (first and last name) available for each training. Sort the output by TrainingName and Trainers' first and last name. Make sure you show the print screen of the complete set of the rows, and columns as specified.

```
SELECT T.TrainingName, TR.TrainerFirstName, TR.TrainerLastName
```

```
FROM Training T
```

```
INNER JOIN EmployeeTraining ET ON T.TrainingID = ET.TrainingID
```

```
INNER JOIN Trainer TR ON ET.EmployeeID = TR.TrainerID
```

```
ORDER BY T.TrainingName, TR.TrainerFirstName, TR.TrainerLastName;
```

The screenshot shows a SQL query editor with the following query:

```
206 • SELECT T.TrainingName, TR.TrainerFirstName, TR.TrainerLastName
207 FROM Training T
208 INNER JOIN EmployeeTraining ET ON T.TrainingID = ET.TrainingID
209 INNER JOIN Trainer TR ON ET.EmployeeID = TR.TrainerID
210 ORDER BY T.TrainingName, TR.TrainerFirstName, TR.TrainerLastName;
```

Below the query editor, the results are displayed in a grid. The grid has four columns: TrainingName, TrainerFirstName, and TrainerLastName. The results are sorted by TrainingName, then TrainerFirstName, and then TrainerLastName.

TrainingName	TrainerFirstName	TrainerLastName
Code of Conduct Training	James	Smith
Code of Conduct Training	Jhonny	Khor
Code of Conduct Training	John	NULL
Code of Conduct Training	Maria	Gracia
Code of Conduct Training	Michael	Smith
Code of Conduct Training	Paul	Dietel
Employee Relations	John	NULL
Intro to python	Jhonny	Khor
Machine Learning	Jhonny	Khor
Microsoft Certifications	Michael	Smith
Product Knowledge	Maria	Gracia
Safety Training	James	Smith
Sales Skills	Maria	Gracia
Security and Privacy	Michael	Smith
Travel and Expense Man...	Paul	Dietel

The interface includes a toolbar with options like Filter Rows, Export, and Wrap Cell Content. The status bar at the bottom indicates 'Result 16' and 'Read Only'.

Q14. Write a multiple-row subquery to display EmployeeID, FirstName, LastName, and HireDate of employees who work for the following departments: Accounting and Finance, IT Support, and Production. Sort the results by EmployeeID. Make sure you show the print screen of the complete set of the rows, and columns as specified.

```
SELECT E.EmployeeID, E.FirstName, E.LastName, E.HireDate
```

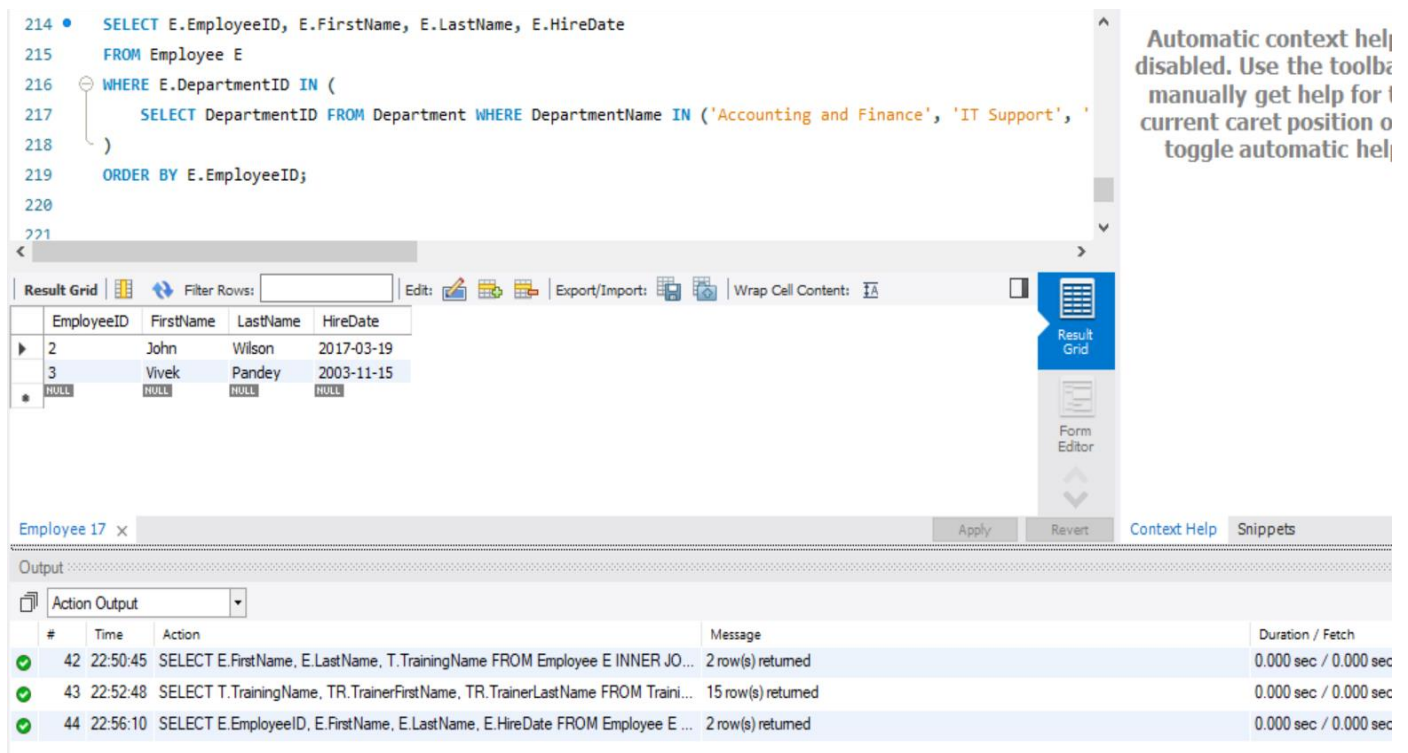
```
FROM Employee E
```

```
WHERE E.DepartmentID IN (
```

```
    SELECT DepartmentID FROM Department WHERE DepartmentName IN ('Accounting and Finance', 'IT Support', 'Production')
```

```
)
```

```
ORDER BY E.EmployeeID;
```



Automatic context help disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```

214 • SELECT E.EmployeeID, E.FirstName, E.LastName, E.HireDate
215 FROM Employee E
216 WHERE E.DepartmentID IN (
217     SELECT DepartmentID FROM Department WHERE DepartmentName IN ('Accounting and Finance', 'IT Support', '
218 )
219 ORDER BY E.EmployeeID;
220
221

```

EmployeeID	FirstName	LastName	HireDate
2	John	Wilson	2017-03-19
3	Vivek	Pandey	2003-11-15
NULL	NULL	NULL	NULL

Employee 17 x Apply Revert Context Help Snippets

Output

#	Time	Action	Message	Duration / Fetch
42	22:50:45	SELECT E.FirstName, E.LastName, T.TrainingName FROM Employee E INNER JO...	2 row(s) returned	0.000 sec / 0.000 sec
43	22:52:48	SELECT T.TrainingName, TR.TrainerFirstName, TR.TrainerLastName FROM Traini...	15 row(s) returned	0.000 sec / 0.000 sec
44	22:56:10	SELECT E.EmployeeID, E.FirstName, E.LastName, E.HireDate FROM Employee E ...	2 row(s) returned	0.000 sec / 0.000 sec

Q15. Write a query to display the EmployeeID, FirstName, LastName, EquipmentName, and EquipmentCostAmount for one of the employees. Sort the results by EmployeeID. Make sure you show the print screen of the complete set of the rows, and columns as specified.

```
SELECT E.EmployeeID, E.FirstName, E.LastName, EQ.EquipmentName, EQ.EquipmentCostAmount
FROM Employee E
INNER JOIN EmployeeEquipment EE ON E.EmployeeID = EE.EmployeeID
INNER JOIN Equipment EQ ON EE.EquipmentID = EQ.EquipmentID
ORDER BY E.EmployeeID;
```

```
221      /* 15th Question*/
222      • SELECT E.EmployeeID, E.FirstName, E.LastName, EQ.EquipmentName, EQ.EquipmentCostAmount
223      FROM Employee E
224      INNER JOIN EmployeeEquipment EE ON E.EmployeeID = EE.EmployeeID
225      INNER JOIN Equipment EQ ON EE.EquipmentID = EQ.EquipmentID
226      ORDER BY E.EmployeeID;
227
```

Result Grid					
Filter Rows:					
Export: Wrap Cell Content:					
	EmployeeID	FirstName	LastName	EquipmentName	EquipmentCostAmount
▶	1	Andy	Wong	NoteBook Computers	1000.00
	2	John	Wilson	NoteBook Computers	1000.00
	2	John	Wilson	Computer Monitors	5000.00
	3	Vivek	Pandey	NoteBook Computers	1000.00
	3	Vivek	Pandey	Headsets	150.00
	3	Vivek	Pandey	Computer Monitors	5000.00
	4	Nola	Davis	NoteBook Computers	1000.00
	4	Nola	Davis	Headsets	150.00
	5	Kathy	Cooper	NoteBook Computers	1000.00
	5	Kathy	Cooper	Headsets	150.00
	5	Kathy	Cooper	Computer Monitors	5000.00
	6	Tom	Harper	NoteBook Computers	1000.00
	6	Tom	Harper	Computer Monitors	5000.00

Result 18 x

Re

Q16. Write a query to display the TrainingID, TrainingName, TrainerID, TrainerFirstName, and TrainerLastName with the trainers who did not provide their last name. Sort the results by TrainingID and TrainerID. Make sure you show the print screen of the complete set of the rows, and columns as specified.

```
SELECT T.TrainingID, T.TrainingName, TR.TrainerID, TR.TrainerFirstName, TR.TrainerLastName  
  
FROM Training T  
  
INNER JOIN Trainer TR ON T.TrainingID = TR.TrainerID  
  
WHERE TR.TrainerLastName IS NULL  
  
ORDER BY T.TrainingID, TR.TrainerID;
```

```
228      /* 16th Question*/  
229  
230 •    SELECT T.TrainingID, T.TrainingName, TR.TrainerID, TR.TrainerFirstName, TR.TrainerLastName  
231      FROM Training T  
232      INNER JOIN Trainer TR ON T.TrainingID = TR.TrainerID  
233      WHERE TR.TrainerLastName IS NULL  
234      ORDER BY T.TrainingID, TR.TrainerID;
```

<					
Result Grid					
Filter Rows: <input type="text"/>					
Export:  Wrap Cell Content: 					
	TrainingID	TrainingName	TrainerID	TrainerFirstName	TrainerLastName
▶	5	Machine Learning	5	John	NULL

Q17. Write a query to display the distinct list of equipments used by the current employees. Sort the output by EquipmentName. Make sure you show the print screen of the complete set of the rows, and columns as specified.

```
SELECT DISTINCT EQ.EquipmentName
```

```
FROM Equipment EQ
```

```
INNER JOIN EmployeeEquipment EE ON EQ.EquipmentID = EE.EquipmentID
```

```
ORDER BY EQ.EquipmentName;
```




237

238 • SELECT DISTINCT EQ.EquipmentName

239 FROM Equipment EQ

240 INNER JOIN EmployeeEquipment EE ON EQ.EquipmentID = EE.EquipmentID

241 ORDER BY EQ.EquipmentName;

<	
Result Grid	 Filter Rows: <input type="text"/>
Export:  Wrap Cell Content: 	
	EquipmentName
▶	Computer Monitors
	Headsets
	NoteBook Computers

Q18. Write a query to display the FirstName, LastName, TrainingName, and trainer(s) (with first and last name in two separate columns) for one of the employees. Sort the results by TrainingName and TrainerFirstName. Make sure you show the print screen of the complete set of the rows, and columns as specified.

```
SELECT E.EmployeeID, E.FirstName, E.LastName, E.HireDate, D.DepartmentName  
  
FROM Employee E  
  
INNER JOIN Department D ON E.DepartmentID = D.DepartmentID  
  
WHERE E.HireDate > '2021-01-01'  
  
ORDER BY E.EmployeeID;
```

```
13      /*18th Question*/
```

```
14
```

```
15 • SELECT E.EmployeeID, E.FirstName, E.LastName, E.HireDate, D.DepartmentName
```

```
16 FROM Employee E
```

```
17 INNER JOIN Department D ON E.DepartmentID = D.DepartmentID
```

```
18 WHERE E.HireDate > '2021-01-01'
```

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

EmployeeID	FirstName	LastName	HireDate	DepartmentName
------------	-----------	----------	----------	----------------

Q19. Write a query to display the EmployeeID, FirstName, LastName, DepartmentID, DepartmentName, EquipmentID, EquipmentName for all employees. Sort the results by EmployeeID, DepartmentID, and EquipmentID. Make sure you show the print screen of the complete set of the rows, and columns as specified.

```
SELECT T.TrainingName, TR.TrainerFirstName, TR.TrainerLastName
```

```
FROM Training T
```

```
INNER JOIN EmployeeTraining ET ON T.TrainingID = ET.TrainingID
```

```
INNER JOIN Trainer TR ON ET.EmployeeID = TR.TrainerID
```

```
ORDER BY T.TrainingName, TR.TrainerFirstName, TR.TrainerLastName;
```

```
254 • SELECT T.TrainingName, TR.TrainerFirstName, TR.TrainerLastName
255 FROM Training T
256 INNER JOIN EmployeeTraining ET ON T.TrainingID = ET.TrainingID
257 INNER JOIN Trainer TR ON ET.EmployeeID = TR.TrainerID
258 ORDER BY T.TrainingName, TR.TrainerFirstName, TR.TrainerLastName;
```

TrainingName	TrainerFirstName	TrainerLastName
Code of Conduct Training	James	Smith
Code of Conduct Training	Jhonny	Khor
Code of Conduct Training	John	NULL
Code of Conduct Training	Maria	Gracia
Code of Conduct Training	Michael	Smith
Code of Conduct Training	Paul	Dietel
Employee Relations	John	NULL
Intro to python	Jhonny	Khor
Machine Learning	Jhonny	Khor
Microsoft Certifications	Michael	Smith
Product Knowledge	Maria	Gracia
Safety Training	James	Smith
Sales Skills	Maria	Gracia
Security and Privacy	Michael	Smith
Travel and Expense Man...	Paul	Dietel

Result 22 x Read O

Q20. Write a query to display the EmployeeID, FirstName, LastName, DepartmentID, DepartmentName, TrainingID, TrainingName for all employees. Sort the results by EmployeeID, DepartmentID, and TrainingID. Make sure you show the print screen of the complete set of the rows, and columns as specified.

```
SELECT E.EmployeeID, E.FirstName, E.LastName, EQ.EquipmentName, EQ.EquipmentCostAmount
FROM Employee E
INNER JOIN EmployeeEquipment EE ON E.EmployeeID = EE.EmployeeID
INNER JOIN Equipment EQ ON EE.EquipmentID = EQ.EquipmentID
ORDER BY E.EmployeeID;
```

263 • SELECT E.EmployeeID, E.FirstName, E.LastName, EQ.EquipmentName, EQ.EquipmentCostAmount
 264 FROM Employee E
 265 INNER JOIN EmployeeEquipment EE ON E.EmployeeID = EE.EmployeeID
 266 INNER JOIN Equipment EQ ON EE.EquipmentID = EQ.EquipmentID
 267 ORDER BY E.EmployeeID;

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

	EmployeeID	FirstName	LastName	EquipmentName	EquipmentCostAmount
1	Andy	Wong		NoteBook Computers	1000.00
2	John	Wilson		NoteBook Computers	1000.00
2	John	Wilson		Computer Monitors	5000.00
3	Vivek	Pandey		NoteBook Computers	1000.00
3	Vivek	Pandey		Headsets	150.00
3	Vivek	Pandey		Computer Monitors	5000.00
4	Nola	Davis		NoteBook Computers	1000.00
4	Nola	Davis		Headsets	150.00
5	Kathy	Cooper		NoteBook Computers	1000.00
5	Kathy	Cooper		Headsets	150.00
5	Kathy	Cooper		Computer Monitors	5000.00
6	Tom	Harper		NoteBook Computers	1000.00
6	Tom	Harper		Computer Monitors	5000.00

Result 23 x

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
49	23:07:54	SELECT T.TrainingName, TR.TrainerFirstName, TR.TrainerLastName FROM Traini...	15 row(s) returned	0.000 sec / 0.000 sec
50	23:10:19	SELECT E.EmployeeID, E.FirstName, E.LastName, EQ.EquipmentName, EQ.Equipo...	13 row(s) returned	0.000 sec / 0.000 sec