

Que 4: Create Table for Salesperson and Customer

4. Create table given below: Salesperson and Customer

TABLE-1

(PK)SNo	SNAME	CITY	COMM
1001	Peel	London	.12
1002	Serres	San Jose	.13
1004	Motika	London	.11
1007	Rafkin	Barcelona	.15
1003	Axelrod	New York	.1

TABLE-2

(PK)CNM.	CNAME	CITY	RATING	(FK)SNo
201	Hoffman	London	100	1001
202	Giovanne	Roe	200	1003
203	Liu	San Jose	300	1002
204	Grass	Barcelona	100	1002
206	Clemens	London	300	1007
207	Pereira	Roe	100	1004

Retrieve the below data from above table

- All orders for more than \$1000.
- Names and cities of all salespeople in London with commission above 0.12

Solution:

Table1 Salesperson→

Salesperson Table Create Query

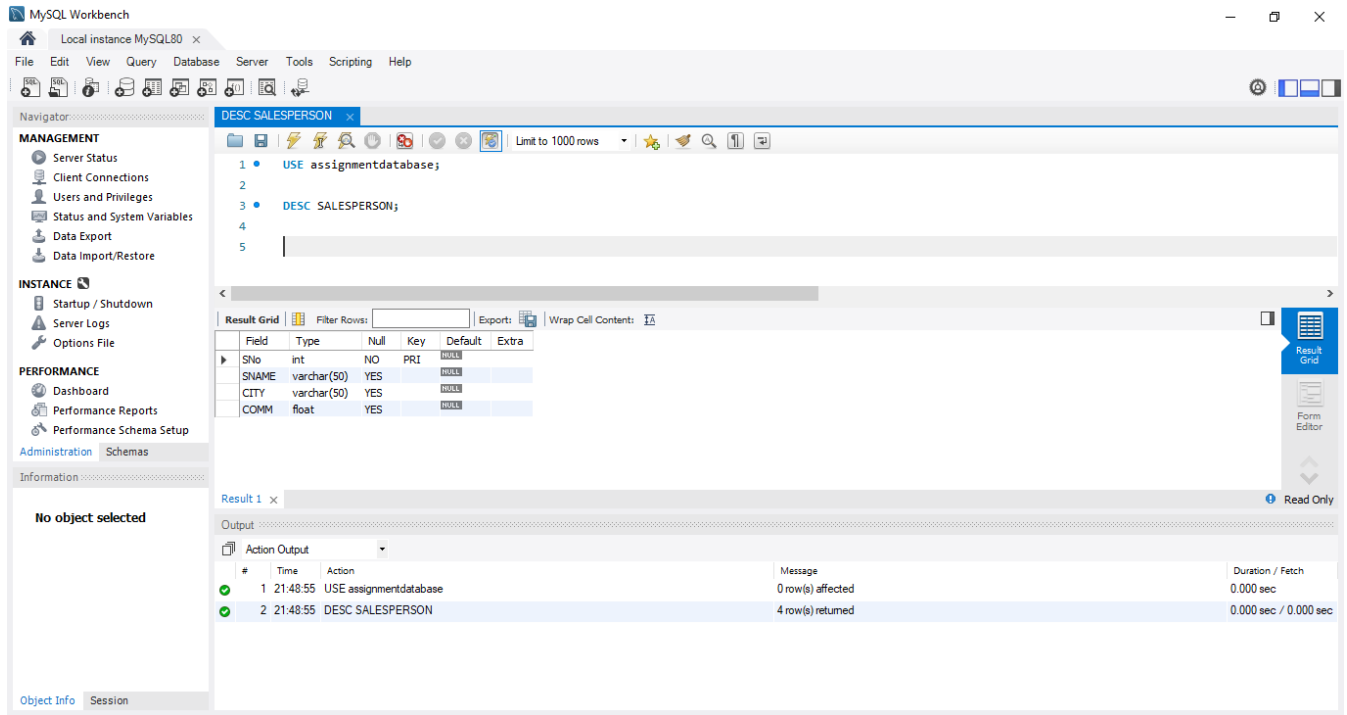
The screenshot shows the MySQL Workbench interface. The 'Query' tab is active, displaying the following SQL query:

```
1 use assignmentdatabase;
2
3
4 CREATE TABLE SALESPELSON(SNo int,SNAME varchar(50),CITY varchar(50),COMM varchar(50),primary key(SNo));
5
6
```

The 'Output' pane at the bottom shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	21:48:55	USE assignmentdatabase	0 row(s) affected	0.000 sec
2	21:48:55	DESC SALESPELSON	4 row(s) returned	0.000 sec / 0.000 sec

Salesperson Table Desc Query



The screenshot shows the MySQL Workbench interface with the query editor displaying the following SQL:

```
1 • USE assignmentdatabase;
2
3 • DESC SALESPERSON;
4
5
```

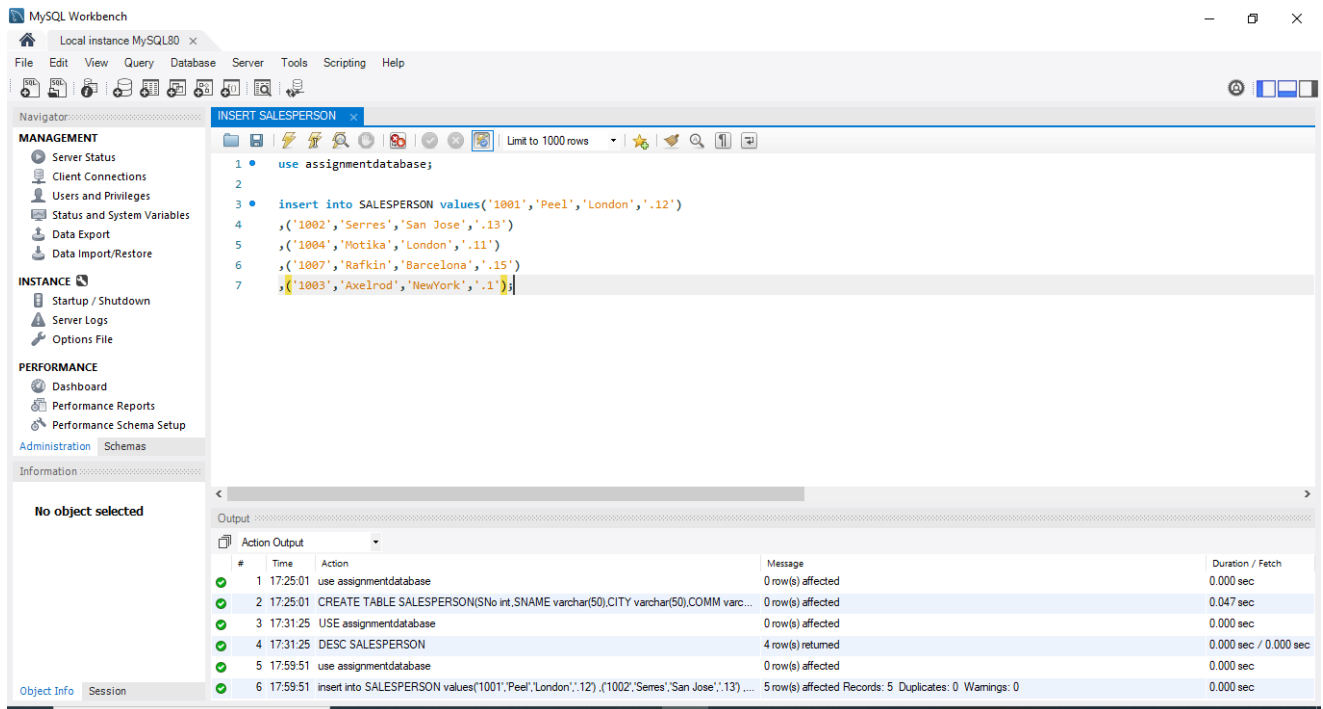
The result grid shows the structure of the SALESPERSON table:

Field	Type	Null	Key	Default	Extra
SNo	int	NO	PRI		UNSIGNED
SNAME	varchar(50)	YES			UNSIGNED
CITY	varchar(50)	YES			UNSIGNED
COMM	float	YES			UNSIGNED

The output pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	21:48:55	USE assignmentdatabase	0 row(s) affected	0.000 sec
2	21:48:55	DESC SALESPERSON	4 row(s) returned	0.000 sec / 0.000 sec

Salesperson Table Insert Query



The screenshot shows the MySQL Workbench interface with the query editor displaying the following SQL:

```
1 • use assignmentdatabase;
2
3 • insert into SALESPERSON values('1001','Peel','London','12')
4 • ,('1002','Serres','San Jose','13')
5 • ,('1004','Motika','London','11')
6 • ,('1007','Rafkin','Barcelona','15')
7 • ,('1003','Axelrod','NewYork','1');
```

The output pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	17:25:01	use assignmentdatabase	0 row(s) affected	0.000 sec
2	17:25:01	CREATE TABLE SALESPERSON(SNo int,SNAME varchar(50),CITY varchar(50),COMM var...	0 row(s) affected	0.047 sec
3	17:31:25	USE assignmentdatabase	0 row(s) affected	0.000 sec
4	17:31:25	DESC SALESPERSON	4 row(s) returned	0.000 sec / 0.000 sec
5	17:59:51	use assignmentdatabase	0 row(s) affected	0.000 sec
6	17:59:51	insert into SALESPERSON values('1001','Peel','London','12'),('1002','Serres','San Jose','13')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec

Salesperson Table Select Query

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

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Information

No object selected

Object Info Session

SHOW SALESPERSON

```
1 use assignmentdatabase;
2
3 SELECT * FROM SALESPERSON;
4
```

Limit to 1000 rows

Result Grid

SNo	SNAME	CITY	COMM
1001	Peel	London	.12
1002	Serres	San Jose	.13
1003	Axelrod	NewYork	.1
1004	Motika	London	.11
1007	Rafkin	Barcelona	.15

Output

Action Output

#	Time	Action	Message	Duration / Fetch
3	17:31:25	USE assignmentdatabase	0 row(s) affected	0.000 sec
4	17:31:25	DESC SALESPERSON	4 row(s) returned	0.000 sec / 0.000 sec
5	17:59:51	use assignmentdatabase	0 row(s) affected	0.000 sec
6	17:59:51	insert into SALESPERSON values('1001','Peel','London','.12'),('1002','Serres','San Jose','.13'...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
7	18:06:19	use assignmentdatabase	0 row(s) affected	0.000 sec
8	18:06:19	SELECT * FROM SALESPERSON LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Table 2 Customer→

Customer Table Create Query

The screenshot shows the MySQL Workbench interface with the 'CREATE TABLE CUSTOMER' query entered in the SQL editor. The query is as follows:

```
1 use assignmentdatabase;
2
3 CREATE TABLE CUSTOMER(CNM int(50),CNAME varchar(50),CITY varchar(50),RATING int(50),SNo int(50),primary key(CNM),foreign key(SNo)
4 REFERENCES SALESPERSON(SNo)
5 ON DELETE CASCADE
6 ON UPDATE CASCADE);
```

The Output pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
7	18:06:19	use assignmentdatabase	0 row(s) affected	0.000 sec
8	18:06:19	SELECT * FROM SALESPERSON LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
9	18:40:16	use assignmentdatabase	0 row(s) affected	0.000 sec
10	18:40:16	CREATE TABLE CUSTOMER(CNM int(50),CNAME varchar(50),CITY varchar(50),RATING int(50),SNo int(50),primary key(CNM),foreign key(SNo) REFERENCES SALESPERSON(SNo) ON DELETE CASCADE ON UPDATE CASCADE);	0 row(s) affected, 3 warning(s): 1681 Integer display width is deprecated and will be removed ...	0.047 sec
11	18:40:51	use assignmentdatabase	0 row(s) affected	0.000 sec
12	18:40:51	CREATE TABLE CUSTOMER(CNM int(50),CNAME varchar(50),CITY varchar(50),RATING int(50),SNo int(50),primary key(CNM),foreign key(SNo) REFERENCES SALESPERSON(SNo) ON DELETE CASCADE ON UPDATE CASCADE);	Error Code: 1050. Table 'customer' already exists	0.016 sec

Customer Table Desc Query

The screenshot shows the MySQL Workbench interface with the 'DESC CUSTOMER' query entered in the SQL editor. The query is as follows:

```
1 use assignmentdatabase;
2
3 DESC CUSTOMER;
```

The Output pane shows the execution results:

Field	Type	Null	Key	Default	Extra
CNM	int	NO	PRI		INDEX
CNAME	varchar(50)	YES			INDEX
CITY	varchar(50)	YES			INDEX
RATING	int	YES			INDEX
SNo	int	YES	MUL		INDEX

The Output pane also shows the execution results for the 'DESC CUSTOMER' query:

#	Time	Action	Message	Duration / Fetch
9	18:40:16	use assignmentdatabase	0 row(s) affected	0.000 sec
10	18:40:16	CREATE TABLE CUSTOMER(CNM int(50),CNAME varchar(50),CITY varchar(50),RATING int(50),SNo int(50),primary key(CNM),foreign key(SNo) REFERENCES SALESPERSON(SNo) ON DELETE CASCADE ON UPDATE CASCADE);	0 row(s) affected, 3 warning(s): 1681 Integer display width is deprecated and will be removed ...	0.047 sec
11	18:40:51	use assignmentdatabase	0 row(s) affected	0.000 sec
12	18:40:51	CREATE TABLE CUSTOMER(CNM int(50),CNAME varchar(50),CITY varchar(50),RATING int(50),SNo int(50),primary key(CNM),foreign key(SNo) REFERENCES SALESPERSON(SNo) ON DELETE CASCADE ON UPDATE CASCADE);	Error Code: 1050. Table 'customer' already exists	0.016 sec
13	18:44:58	use assignmentdatabase	0 row(s) affected	0.000 sec
14	18:44:58	DESC CUSTOMER	5 row(s) returned	0.000 sec / 0.000 sec

Customer Table Insert Query

The screenshot shows the MySQL Workbench interface with a query editor titled "INSERT CUSTOMER". The query is as follows:

```
1 • use assignmentdatabase;
2
3
4 • INSERT INTO CUSTOMER values('201','Hoffman','London','100','1001')
5 ,('202','Giovanne','Roe','200','1003')
6 ,('203','Liu','San Jose','300','1002')
7 ,('204','Grass','Barcelona','100','1002')
8 ,('206','Clemens','London','300','1007')
9 ,('207','Pereira','Roe','100','1004');
10
```

The output pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
✓ 14	18:44:58	DESC CUSTOMER	5 row(s) returned	0.000 sec / 0.000 sec
✓ 15	19:00:12	use assignmentdatabase	0 row(s) affected	0.000 sec
✓ 16	19:00:12	INSERT INTO CUSTOMER values('201','Hoffman','London','100','1001') ('202','Giovanne'...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.000 sec
✗ 17	19:03:31	use assignment	Error Code: 1049. Unknown database 'assignment'	0.000 sec
✓ 18	19:04:00	use assignmentdatabase	0 row(s) affected	0.000 sec
✓ 19	19:04:00	SELECT * FROM CUSTOMER LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

Customer Table Select Query

The screenshot shows the MySQL Workbench interface with a query editor titled "SHOW CUSTOMER". The query is as follows:

```
1 • use assignmentdatabase;
2
3 • SELECT * FROM CUSTOMER;
4
5
```

The output pane shows the execution results in a table format:

	CNM	CNAME	CITY	RATING	SNo
▶	201	Hoffman	London	100	1001
	202	Giovanne	Roe	200	1003
	203	Liu	San Jose	300	1002
	204	Grass	Barcelona	100	1002
	206	Clemens	London	300	1007
	207	Pereira	Roe	100	1004
*	NULL	NULL	NULL	NULL	NULL

The output pane also shows the execution results for the query:

#	Time	Action	Message	Duration / Fetch
✓ 14	18:44:58	DESC CUSTOMER	5 row(s) returned	0.000 sec / 0.000 sec
✓ 15	19:00:12	use assignmentdatabase	0 row(s) affected	0.000 sec
✓ 16	19:00:12	INSERT INTO CUSTOMER values('201','Hoffman','London','100','1001') ('202','Giovanne'...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.000 sec
✗ 17	19:03:31	use assignment	Error Code: 1049. Unknown database 'assignment'	0.000 sec
✓ 18	19:04:00	use assignmentdatabase	0 row(s) affected	0.000 sec
✓ 19	19:04:00	SELECT * FROM CUSTOMER LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

a) All orders for more than \$1000.

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
1 use assignmentdatabase;
2
3 SELECT * FROM CUSTOMER WHERE SNo >1000 ORDER BY SNo;
4
```

The result grid displays the following data:

CNM	CNAME	CITY	RATING	SNo
201	Hoffman	London	100	1001
203	Liu	San Jose	300	1002
204	Grass	Barcelona	100	1002
202	Giovanne	Roe	200	1003
207	Pereira	Roe	100	1004
206	Clemens	London	300	1007

The output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
1	20:01:43	use assignmentdatabase	0 row(s) affected	0.000 sec
2	20:01:44	SELECT * FROM CUSTOMERS WHERE SNo >1000 ORDER BY SNo LIMIT 0, 1000	Error Code: 1146. Table 'assignmentdatabase.customers' doesn't exist	0.000 sec
3	20:02:07	use assignmentdatabase	0 row(s) affected	0.000 sec
4	20:02:07	SELECT * FROM CUSTOMER WHERE SNo >1000 ORDER BY SNo LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

b) Names and cities of all salespeople in London with commission above 0.12

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
1 use assignmentdatabase;
2
3 SELECT SNAME,CITY FROM salesperson WHERE CITY='London' AND COMM <='12';
4
5
```

The result grid displays the following data:

SNAME	CITY
Peel	London
Motika	London

The output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
7	22:02:20	use assignmentdatabase	0 row(s) affected	0.000 sec
8	22:02:20	SELECT * FROM CUSTOMER WHERE RATING<='100' AND CITY='rome' LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
9	22:04:00	use assignmentdatabase	0 row(s) affected	0.000 sec
10	22:04:00	SELECT SNAME,CITY FROM salesperson WHERE CITY='London' AND COMM >='12' LIMIT...	0 row(s) returned	0.000 sec / 0.000 sec
11	22:04:08	use assignmentdatabase	0 row(s) affected	0.015 sec
12	22:04:08	SELECT SNAME,CITY FROM salesperson WHERE CITY='London' AND COMM <='12' LIMIT...	2 row(s) returned	0.000 sec / 0.000 sec

SQL script saved to 'C:\Users\Aditya\Documents\EXCLUDING UNLESS a) QUE 4.sql'

c) All salespeople either in Barcelona or in London

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
1 • use assignmentdatabase;
2
3 • SELECT * FROM SALESPERSON WHERE CITY='barcelona' OR CITY='London';
4
```

The result grid displays the following data:

SNo	SNAME	CITY	COMM
1001	Peel	London	0.12
1004	Motika	London	0.11
1007	Rafkin	Barcelona	0.15

The output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
1	22:43:53	use assignmentdatabase	0 row(s) affected	0.000 sec
2	22:43:53	SELECT * FROM SALESPERSON WHERE CITY='barcelona' OR CITY='London' LIMIT 0, 1000	3 row(s) returned	0.047 sec / 0.000 sec

d) All salespeople with commission between 0.10 and 0.12. (Boundary values should be excluded).

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
1 • use assignmentdatabase;
2
3 • SELECT * FROM SALESPERSON WHERE COMM BETWEEN 0.10 AND 0.12;
```

The result grid displays the following data:

SNo	SNAME	CITY	COMM
1001	Peel	London	0.12
1003	Axelrod	NewYork	0.1
1004	Motika	London	0.11

The output pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
9	21:21:23	use assignmentdatabase	0 row(s) affected	0.000 sec
10	21:21:23	SELECT * FROM SALESPERSON WHERE COMM BETWEEN .10 AND .12 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
11	21:21:37	use assignmentdatabase	0 row(s) affected	0.000 sec
12	21:21:37	SELECT * FROM SALESPERSON WHERE COMM BETWEEN 0.10 AND 0.12 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
13	21:37:44	use assignmentdatabase	0 row(s) affected	0.000 sec
14	21:37:44	SELECT * FROM SALESPERSON WHERE COMM BETWEEN 0.10 AND 0.12 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

e) All customers excluding those with rating <= 100 unless they are located in Rome

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: EXCLUDING UNLESS e) QUE 4

1 • use assignmentdatabase;

2

3 • SELECT * FROM CUSTOMER WHERE RATING <= '100' OR CITY = 'rome';

4

Result Grid

CNM	CNAME	CITY	RATING	SNo
201	Hoffman	London	100	1001
204	Grass	Barcelona	100	1002
207	Pereira	Roe	100	1004
NULL	NULL	NULL	NULL	NULL

INSTANCE

Startup / Shutdown

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PERFORMANCE

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Information

No object selected

CUSTOMER 1 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
9	22:04:00	use assignmentdatabase	0 row(s) affected	0.000 sec
10	22:04:00	SELECT SNAME,CITY FROM salesperson WHERE CITY='london' AND COMM >='12' LIM...	0 row(s) returned	0.000 sec / 0.000 sec
11	22:04:08	use assignmentdatabase	0 row(s) affected	0.015 sec
12	22:04:08	SELECT SNAME,CITY FROM salesperson WHERE CITY='london' AND COMM <='12' LIM...	2 row(s) returned	0.000 sec / 0.000 sec
13	22:09:37	use assignmentdatabase	0 row(s) affected	0.000 sec
14	22:09:37	SELECT * FROM CUSTOMER WHERE RATING <='100' OR CITY='rome' LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

SQL script saved to 'C:\Users\Aditya\Documents\EXCLUDING UNLESS e) QUE 4.sql'