

GAURAV SINGH
19BBS0026
CBS 1007 (L33+34)
02-AUGUST-2020



DATABASE MANAGEMENT SYSTEM(CBS-1007)

SLOT: L33+34

LAB ASSESSMENT -1

NAME-GAURAV SINGH

REG NO.- 19BBS0026

EX 1.1: DDL AND DML COMMANDS

1-

```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 23
Server version: 8.0.21 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use database employee
Database changed
mysql> create table Customer(id integer(5)
-> name varchar(20),
-> order_id integer(3),
-> order_detail varchar(20),
-> mobile integer(10),
-> email varchar(30),
-> location varchar(10));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'name varchar(20),
order_id integer(3),
order_detail varchar(20),
mobile integer' at line 2
mysql> create table Customer
-> (id integer(5),
-> name varchar(20),
-> order_id integer(3),
-> order_detail varchar(20),
-> mobile integer(10),
-> email varchar(30),
-> location varchar(10)
-> );
Query OK, 0 rows affected, 3 warnings (1.74 sec)
```

```
MySQL 8.0 Command Line Client
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'DESC Customer' at line 2
mysql> DESC Customer;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| id     | int  | YES  |     | NULL    |       |
| name   | varchar(20) | YES  |     | NULL    |       |
| order_id | int  | YES  |     | NULL    |       |
| order_detail | varchar(20) | YES  |     | NULL    |       |
| mobile  | int  | YES  |     | NULL    |       |
| email   | varchar(30) | YES  |     | NULL    |       |
| location | varchar(10) | YES  |     | NULL    |       |
+-----+
7 rows in set (0.12 sec)

mysql> insert into 'Customer'('id','name','order_id','order_detail','mobile','email','location') values(NULL,"GAURAV","222","AC","234556670","XYZ@gmail.com","LUCKNOW"),(NULL,"SAURABH","222","AC","234556670","XYZ@gmail.com","LUCKNOW"),(NULL,"RAJ","222","AC","234556670","XYZ@gmail.com","LUCKNOW"),(NULL,"KARAN","222","AC","234556670","XYZ@gmail.com","LUCKNOW"),(NULL,"ARYA","222","AC","234556670","XYZ@gmail.com","LUCKNOW"),(NULL,"RAHUL","222","AC","234556670","XYZ@gmail.com","LUCKNOW"),(NULL,"SANDY","222","AC","234556670","XYZ@gmail.com","LUCKNOW"),(NULL,"RAY","222","AC","234556670","XYZ@gmail.com","LUCKNOW"),(NULL,"SHYAM","222","AC","234556670","XYZ@gmail.com","LUCKNOW");
Query OK, 9 rows affected (0.22 sec)
Records: 9 Duplicates: 0 Warnings: 0
```

2-

```
mysql> SELECT *FROM 'C
mysql> SELECT *FROM Customer;
+-----+
| id | name | order_id | order_detail | mobile | email | location |
+-----+
| NULL | GAURAV | 222 | AC | 234556670 | XYZ@gmail.com | LUCKNOW |
| NULL | SAURABH | 222 | AC | 234556670 | XYZ@gmail.com | LUCKNOW |
| NULL | RAJ | 222 | AC | 234556670 | XYZ@gmail.com | LUCKNOW |
| NULL | KARAN | 222 | AC | 234556670 | XYZ@gmail.com | LUCKNOW |
| NULL | ARYA | 222 | AC | 234556670 | XYZ@gmail.com | LUCKNOW |
| NULL | RAHUL | 222 | AC | 234556670 | XYZ@gmail.com | LUCKNOW |
| NULL | SANDY | 222 | AC | 234556670 | XYZ@gmail.com | LUCKNOW |
| NULL | RAY | 222 | AC | 234556670 | XYZ@gmail.com | LUCKNOW |
| NULL | SHYAM | 222 | AC | 234556670 | XYZ@gmail.com | LUCKNOW |
+-----+
9 rows in set (0.00 sec)
```

3-

```
mysql> alter table customer add item_price integer(7) after order_detail;
Query OK, 0 rows affected, 1 warning (2.61 sec)
Records: 0 Duplicates: 0 Warnings: 1
```

```
mysql> select * from customer;
```

id	name	order_id	order_detail	item_price	mobile	email	location
NULL	GAURAV	222	AC	NULL	234556670	XY2@gmail.com	LUCKNOW
NULL	SAURABH	222	AC	NULL	234556670	XY2@gmail.com	LUCKNOW
NULL	RAJ	222	AC	NULL	234556670	XY2@gmail.com	LUCKNOW
NULL	KARAN	222	AC	NULL	234556670	XY2@gmail.com	LUCKNOW
NULL	ARYA	222	AC	NULL	234556670	XY2@gmail.com	LUCKNOW
NULL	RAHUL	222	AC	NULL	234556670	XY2@gmail.com	LUCKNOW
NULL	SANJAY	222	AC	NULL	234556670	XY2@gmail.com	LUCKNOW
NULL	RAM	222	AC	NULL	234556670	XY2@gmail.com	LUCKNOW
NULL	SHYAM	222	AC	NULL	234556670	XY2@gmail.com	LUCKNOW

0 rows in set (0.00 sec)

4-

```
mysql> UPDATE 'customer' --> SET --> 'item_price' = '56000' --> WHERE 'customer'.name = "Arya";
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '--> SET --> 'item_price' = '56000' --> WHERE 'custome
n'.name = "Arya" at line 1
mysql> UPDATE 'customer'
--> SET
--> 'item_price' = '12456'
--> WHERE 'customer'.name = "GAURAV";
Query OK, 1 row affected (0.39 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE 'customer'
--> SET
--> 'item_price' = '56000'
--> WHERE 'customer'.name = "SAURABH";
--> WHERE 'customer'.name = "SAURABH";
-->
--> SET
--> 'item_price' = '56000'
--> WHERE 'customer'.name = "SAURABH";
--> ^C
mysql> UPDATE 'customer'
--> SET
--> 'item_price' = '56565'
--> WHERE 'customer'.name = "SAURABH";
Query OK, 1 row affected (0.12 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE 'customer'
--> SET
--> 'item_price' = '56565'
--> WHERE 'customer'.name = "RAJ";
Query OK, 1 row affected (0.11 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> UPDATE 'customer'
--> SET
--> 'item_price' = '56565'
--> WHERE 'customer'.name = "KARAN";
Query OK, 1 row affected (0.10 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE 'customer'
--> SET
--> 'item_price' = '56565'
--> WHERE 'customer'.name = "ARYA";
Query OK, 1 row affected (0.06 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE 'customer'
--> SET
--> 'item_price' = '56565'
--> WHERE 'customer'.name = "RAHUL";
Query OK, 1 row affected (0.05 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE 'customer'
--> SET
--> 'item_price' = '56565'
--> WHERE 'customer'.name = "SANJAY";
Query OK, 1 row affected (0.12 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE 'customer'
--> SET
--> 'item_price' = '56565'
--> WHERE 'customer'.name = "RAM";
Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE 'customer'
--> SET
--> 'item_price' = '56565'
--> WHERE 'customer'.name = "SHYAM";
Query OK, 1 row affected (0.10 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

5-

```
mysql> select * from customer;
```

id	name	order_id	order_detail	item_price	mobile	email	location
NULL	GAURAV	222	AC	12456	234556670	XY2@gmail.com	LUCKNOW
NULL	SAURABH	222	AC	56565	234556670	XY2@gmail.com	LUCKNOW
NULL	RAJ	222	AC	56565	234556670	XY2@gmail.com	LUCKNOW
NULL	KARAN	222	AC	56565	234556670	XY2@gmail.com	LUCKNOW
NULL	ARYA	222	AC	56565	234556670	XY2@gmail.com	LUCKNOW
NULL	RAHUL	222	AC	56565	234556670	XY2@gmail.com	LUCKNOW
NULL	SANJAY	222	AC	56565	234556670	XY2@gmail.com	LUCKNOW
NULL	RAM	222	AC	56565	234556670	XY2@gmail.com	LUCKNOW
NULL	SHYAM	222	AC	56565	234556670	XY2@gmail.com	LUCKNOW

0 rows in set (0.00 sec)

6-

```
mysql> alter table customer drop email;
Query OK, 0 rows affected (1.84 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> select * from customer;
+----+-----+-----+-----+-----+-----+
| id | name | order_id | order_detail | item_price | mobile | location |
+----+-----+-----+-----+-----+-----+
| NULL | GAURAV | 222 | AC | 12456 | 234556670 | LUCKNOW |
| NULL | SAURABH | 222 | AC | 56565 | 234556670 | LUCKNOW |
| NULL | RAJ | 222 | AC | 56565 | 234556670 | LUCKNOW |
| NULL | KARAN | 222 | AC | 56565 | 234556670 | LUCKNOW |
| NULL | ARYA | 222 | AC | 56565 | 234556670 | LUCKNOW |
| NULL | RAHUL | 222 | AC | 56565 | 234556670 | LUCKNOW |
| NULL | SANJAY | 222 | AC | 56565 | 234556670 | LUCKNOW |
| NULL | RAM | 222 | AC | 56565 | 234556670 | LUCKNOW |
| NULL | SHYAM | 222 | AC | 56565 | 234556670 | LUCKNOW |
+----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

7-

```
mysql> select * from customer where 'name' = "Gaurav";
+----+-----+-----+-----+-----+-----+-----+
| id | name | order_id | order_detail | item_price | mobile | email | location |
+----+-----+-----+-----+-----+-----+-----+
| NULL | GAURAV | 222 | AC | 12456 | 234556670 | XY7@gmail.com | LUCKNOW |
+----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

8-

```
MySQL 8.0 Command Line Client

mysql> select id, name, location from customer;
+----+-----+-----+
| id | name | location |
+----+-----+-----+
| NULL | GAURAV | LUCKNOW |
| NULL | SAURABH | LUCKNOW |
| NULL | RAJ | LUCKNOW |
| NULL | KARAN | LUCKNOW |
| NULL | ARYA | LUCKNOW |
| NULL | RAHUL | LUCKNOW |
| NULL | SANJAY | LUCKNOW |
| NULL | RAM | LUCKNOW |
| NULL | SHYAM | LUCKNOW |
+----+-----+-----+
9 rows in set (0.00 sec)
```

9-

```
mysql> select distinct(location);
ERROR 1054 (42S22): Unknown column 'location' in 'field list'
mysql> select distinct(location) FROM Customer;
+-----+
| location |
+-----+
| LUCKNOW |
+-----+
1 row in set (0.03 sec)
```

10-

```
mysql> ALTER TABLE customer CHANGE id Cust_id integer(5);
Query OK, 0 rows affected, 1 warning (0.19 sec)
Records: 0 Duplicates: 0 Warnings: 1

mysql> select * from customer;
+-----+-----+-----+-----+-----+-----+
| Cust_id | name | order_id | order_detail | item_price | mobile | location |
+-----+-----+-----+-----+-----+-----+
| NULL | GAURAV | 222 | AC | 12456 | 234556670 | LUCKNOW |
| NULL | SAURABH | 222 | AC | 56565 | 234556670 | LUCKNOW |
| NULL | RAJ | 222 | AC | 56565 | 234556670 | LUCKNOW |
| NULL | KARAN | 222 | AC | 56565 | 234556670 | LUCKNOW |
| NULL | ARYA | 222 | AC | 56565 | 234556670 | LUCKNOW |
| NULL | RAHUL | 222 | AC | 56565 | 234556670 | LUCKNOW |
| NULL | SANJAY | 222 | AC | 56565 | 234556670 | LUCKNOW |
| NULL | RAM | 222 | AC | 56565 | 234556670 | LUCKNOW |
| NULL | SHYAM | 222 | AC | 56565 | 234556670 | LUCKNOW |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.04 sec)
```

11-

```
mysql> alter table customer rename to Cust_details;
Query OK, 0 rows affected (0.98 sec)
```

12-

```
mysql> ^C
mysql> select * from cust_details;
+-----+-----+-----+-----+-----+-----+
| Cust_id | name  | order_id | order_detail | item_price | mobile | location |
+-----+-----+-----+-----+-----+-----+
| NULL    | GAURAV | 222      | AC           | 12456      | 234556670 | LUCKNOW  |
| NULL    | SAURABH | 222     | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | RAJ    | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | KARAN  | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | ARYA   | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | RAHUL  | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | SANJAY | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | RAM    | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | SHYAM  | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.13 sec)
```

13-

```
mysql> UPDATE `cust_details`
-> SET
-> 'mobile' = '932701266'
-> WHERE `cust_details`.`location` = "LUCKNOW";
Query OK, 9 rows affected (0.00 sec)
Rows matched: 9 Changed: 9 Warnings: 0
```

14-

```
MySQL 8.0 Command Line Client
mysql> UPDATE `customer_details`
-> SET
-> 'mobile' = '932701266'
-> WHERE `customer_details`.`location` = "Ahmedabad";
Query OK, 1 row affected (0.20 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

15-

```
mysql> select * from customer;
+-----+-----+-----+-----+-----+-----+
| Cust_id | name  | order_id | order_detail | item_price | mobile | location |
+-----+-----+-----+-----+-----+-----+
| NULL    | GAURAV | 222      | AC           | 12456      | 234556670 | LUCKNOW  |
| NULL    | SAURABH | 222     | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | RAJ    | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | KARAN  | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | ARYA   | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | RAHUL  | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | SANJAY | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | RAM    | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | SHYAM  | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.04 sec)
```

16-

```
MySQL 8.0 Command Line Client
mysql> delete from customer_details
-> where `location` = "Delhi";
Query OK, 1 row affected (0.42 sec)
```

17-

```
MySQL 8.0 Command Line Client
mysql> rollback;
Query OK, 0 rows affected (0.00 sec)
```

18-

```
mysql> select * from customer;
+-----+-----+-----+-----+-----+-----+
| Cust_id | name  | order_id | order_detail | item_price | mobile | location |
+-----+-----+-----+-----+-----+-----+
| NULL    | GAURAV | 222      | AC           | 12456      | 234556670 | LUCKNOW  |
| NULL    | SAURABH | 222     | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | RAJ    | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | KARAN  | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | ARYA   | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | RAHUL  | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | SANJAY | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | RAM    | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
| NULL    | SHYAM  | 222      | AC           | 56565      | 234556670 | LUCKNOW  |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.04 sec)
```

19-

```
MySQL 8.0 Command Line Client
mysql> commit;
Query OK, 0 rows affected (0.10 sec)

mysql>
```

20-

```
MySQL 8.0 Command Line Client
mysql> select distinct() from customer_details;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ')' from customer_details' at line 1
mysql> select distinct * from customer_details;

+----+-----+-----+-----+-----+-----+-----+
| Cust_id | name  | order_id | order_detail | item_price | mobile  | location |
+----+-----+-----+-----+-----+-----+-----+
| 1      | Arya  | 111      | AC           | 56000     | 932701266 | Ahmedabad |
| 2      | Akshat | 112      | Cooler       | 20000     | 846066924 | Gurgaon   |
| 3      | Abdul | 113      | Watch        | 120000    | 982545050 | Bangalore |
| 4      | Gaurav | 114      | Earphone     | 1500      | 992540155 | Lucknow   |
| 5      | Nishil | 115      | Shoes        | 15000     | 991515151 | Mumbai    |
| 7      | Abhi  | 117      | Shirt        | 2600      | 98765432  | Pune      |
| 8      | Sanjay | 118      | Laptop       | 260000    | 959595959 | Vellore   |
+----+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

21-

```
MySQL 8.0 Command Line Client
mysql> delete from customer_details
-> where 'location' = "Delhi";
Query OK, 1 row affected (0.42 sec)
```

22-

```
MySQL 8.0 Command Line Client
mysql> select distinct() from customer_details;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ')' from customer_details' at line 1
mysql> select distinct * from customer_details;

+----+-----+-----+-----+-----+-----+-----+
| Cust_id | name  | order_id | order_detail | item_price | mobile  | location |
+----+-----+-----+-----+-----+-----+-----+
| 1      | Arya  | 111      | AC           | 56000     | 932701266 | Ahmedabad |
| 2      | Akshat | 112      | Cooler       | 20000     | 846066924 | Gurgaon   |
| 3      | Abdul | 113      | Watch        | 120000    | 982545050 | Bangalore |
| 4      | Gaurav | 114      | Earphone     | 1500      | 992540155 | Lucknow   |
| 5      | Nishil | 115      | Shoes        | 15000     | 991515151 | Mumbai    |
| 7      | Abhi  | 117      | Shirt        | 2600      | 98765432  | Pune      |
| 8      | Sanjay | 118      | Laptop       | 260000    | 959595959 | Vellore   |
+----+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

23-

```
MySQL 8.0 Command Line Client
7 rows in set (0.00 sec)

mysql> truncate table customer_details;
Query OK, 0 rows affected (2.07 sec)
```

24-

```
MySQL 8.0 Command Line Client
7 rows in set (0.00 sec)

mysql> truncate table customer_details;
Query OK, 0 rows affected (2.07 sec)

mysql> desc customer_details;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Cust_id | int | NO | PRI | NULL | |
| name | varchar(20) | YES | | NULL | |
| order_id | int | YES | | NULL | |
| order_detail | varchar(20) | YES | | NULL | |
| item_price | int | YES | | NULL | |
| mobile | int | YES | | NULL | |
| location | varchar(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.38 sec)
```

25-

```
MySQL 8.0 Command Line Client

mysql> drop table customer_details;
Query OK, 0 rows affected (1.80 sec)
```

26-

```
mysql> desc customer_details;
ERROR 1146 (42502): Table 'exercisel.customer_details' doesn't exist
mysql>
```

EX 1.2 AGGREGATE FUNCTIONS:

1-

```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 8.0.21 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use database cust
Database changed
mysql> create table CustomerDetails
  -> (CustomerID integer(5),
  -> CustomerName varchar(12),
  -> OrderDate date,
  -> orderAmount decimal(8,4),
  -> AgentCode integer(4));
Query OK, 0 rows affected, 2 warnings (0.72 sec)

mysql> desc CustomerDetails;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| CustomerID | int | YES | | NULL | |
| CustomerName | varchar(12) | YES | | NULL | |
| OrderDate | date | YES | | NULL | |
| orderAmount | decimal(8,4) | YES | | NULL | |
| AgentCode | int | YES | | NULL | |
+-----+-----+-----+-----+-----+
5 rows in set (0.16 sec)
```

```
MySQL 8.0 Command Line Client

mysql> insert into CustomerDetails values(11111,'gaurav','22-03-2002',2000.01,12);
ERROR 1292 (22007): Incorrect date value: '22-03-2002' for column 'OrderDate' at row 1
mysql> insert into CustomerDetails values(11111,'gaurav','2002-03-22',2000.01,12);
Query OK, 1 row affected (0.14 sec)

mysql> insert into CustomerDetails values(12345,'Saurabh','2001-03-22',2200.01,11);
Query OK, 1 row affected (0.09 sec)

mysql> insert into CustomerDetails values(11134,'karan','2002-03-26',2005.01,13);
Query OK, 1 row affected (0.07 sec)

mysql> insert into CustomerDetails values(11132,'Ram','2007-03-22',3000.01,32);
Query OK, 1 row affected (0.08 sec)

mysql> insert into CustomerDetails values(11123,'Shyam','2002-03-22',2000.01,17);
Query OK, 1 row affected (0.12 sec)

mysql> insert into CustomerDetails values(11451,'Rohit','2002-03-22',6200.01,2);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '6200.01,2)' at line 1
mysql> insert into CustomerDetails values(11231,'rohit','2002-03-22',2000.01,22);
Query OK, 1 row affected (0.12 sec)

mysql> insert into CustomerDetails values(11231,'Mohit','2002-05-22',2000.01,22);
Query OK, 1 row affected (0.09 sec)

mysql> insert into CustomerDetails values(11123,'ARYA','2002-03-29',2300.01,23);
Query OK, 1 row affected (0.14 sec)

mysql> insert into CustomerDetails values(11132,'LUV','2002-03-13',2040.01,45);
Query OK, 1 row affected (0.09 sec)

mysql> insert into CustomerDetails values(13111,'Kush','2002-03-22',2000.01,23);
Query OK, 1 row affected (0.09 sec)

mysql> insert into CustomerDetails values(11231,'JACK','2001-03-22',2230.01,23);
Query OK, 1 row affected (0.10 sec)

mysql> insert into CustomerDetails values(11131,'VISHAL','2002-03-26',2020.01,32);
Query OK, 1 row affected (0.24 sec)
```

```
MySQL 8.0 Command Line Client

mysql> select * from CustomerDetails;
+-----+-----+-----+-----+-----+
| CustomerID | CustomerName | OrderDate | orderAmount | AgentCode |
+-----+-----+-----+-----+-----+
| 11111 | gaurav | 2002-03-22 | 2000.0100 | 12 |
| 12345 | Saurabh | 2001-03-22 | 2200.0100 | 11 |
| 11134 | karan | 2002-03-26 | 2005.0100 | 13 |
| 11132 | Ram | 2007-03-22 | 3000.0100 | 32 |
| 11123 | Shyam | 2002-03-22 | 2000.0100 | 17 |
| 11231 | rohit | 2002-03-22 | 2000.0100 | 22 |
| 11231 | Mohit | 2002-05-22 | 2000.0100 | 22 |
| 11123 | ARYA | 2002-03-29 | 2300.0100 | 23 |
| 11132 | LUV | 2002-03-13 | 2040.0100 | 45 |
| 13111 | Kush | 2002-03-22 | 2000.0100 | 23 |
| 11231 | JACK | 2001-03-22 | 2230.0100 | 23 |
| 11131 | VISHAL | 2002-03-26 | 2020.0100 | 32 |
+-----+-----+-----+-----+-----+
12 rows in set (0.09 sec)
```


2-

```
MySQL 8.0 Command Line Client
mysql> select count(*) from CustomerDetails where orderAmount>12000;
+-----+
| count(*) |
+-----+
|         0 |
+-----+
1 row in set (0.08 sec)
```

3-

```
mysql> select distinct count(CustomerID) from CustomerDetails;
+-----+
| count(CustomerID) |
+-----+
|                12 |
+-----+
1 row in set (0.05 sec)

mysql> select distinct count(distinct CustomerID) from CustomerDetails;
+-----+
| count(distinct CustomerID) |
+-----+
|                        8 |
+-----+
1 row in set (0.06 sec)
```

4-

```
mysql> select CustomerName from CustomerDetails order by CustomerName asc limit 2;
+-----+
| CustomerName |
+-----+
| ARYA         |
| gaurav       |
+-----+
2 rows in set (0.00 sec)
```

5-

```
MySQL 8.0 Command Line Client
mysql> select CustomerName from CustomerDetails order by CustomerName desc limit 1;
+-----+
| CustomerName |
+-----+
| VISHAL       |
+-----+
1 row in set (0.00 sec)
```

6

```
mysql> select max(OrderAmount) from CustomerDetails;
+-----+
| max(OrderAmount) |
+-----+
|          3000.0100 |
+-----+
1 row in set (0.04 sec)
```

7-

```
mysql> select min(OrderAmount) from CustomerDetails;
+-----+
| min(OrderAmount) |
+-----+
|          2000.0100 |
+-----+
1 row in set (0.00 sec)
```

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CBS 1007 (L33+34)
02-AUGUST-2020

8-

```
mysql> select sum(OrderAmount) from CustomerDetails;
+-----+
| sum(OrderAmount) |
+-----+
|          25795.1200 |
+-----+
1 row in set (0.04 sec)
```

9-

```
mysql> select avg(OrderAmount) from CustomerDetails;
+-----+
| avg(OrderAmount) |
+-----+
|      2149.5933333 |
+-----+
1 row in set (0.00 sec)
```

10-

```
MySQL 8.0 Command Line Client

mysql> select lname (CustomerName) from CustomerDetails;

+-----+
| lname (CustomerName) |
+-----+
| gaurav                |
| saurabh               |
| karan                 |
| rae                   |
| shyam                 |
| rohit                 |
| mohit                 |
| arya                  |
| luv                   |
| kush                  |
| jack                  |
| vishal                |
+-----+

12 rows in set (0.05 sec)
```

11-

```
mysql> select ucase( CustomerName) from CustomerDetails;
+-----+
| ucase( CustomerName) |
+-----+
| GAURAV                |
| SAURABH               |
| KARANI                |
| RAM                  |
| SHYAM                |
| ROHIT                |
| MOHIT                |
| ARYA                 |
| LUV                  |
| KUSH                 |
| JACK                 |
| VISHAL               |
+-----+
12 rows in set (0.04 sec)
```

12-

```
mysql> select mid(CustomerName,1,3) from Customer-Details;
```

mid(CustomerName,1,3)
gau
Sau
kar
Ram
Shy
roh
Moh
ARY
LUV
Kus
Jac
VIS

12 rows in set (0.04 sec)

13-

```
mysql> select round(OrderAmount ) from CustomerDetails;
+-----+
| round(OrderAmount ) |
+-----+
| 2000 |
| 2200 |
| 2005 |
| 3000 |
| 2000 |
| 2000 |
| 2000 |
| 2300 |
| 2040 |
| 2000 |
| 2230 |
| 2020 |
+-----+
12 rows in set (0.05 sec)
```

```
MySQL 8.0 Command Line Client
mysql> select round(OrderAmount,1 ) from CustomerDetails;
+-----+
| round(OrderAmount,1 ) |
+-----+
| 2000.0 |
| 2200.0 |
| 2005.0 |
| 3000.0 |
| 2000.0 |
| 2000.0 |
| 2000.0 |
| 2300.0 |
| 2040.0 |
| 2000.0 |
| 2230.0 |
| 2020.0 |
+-----+
12 rows in set (0.00 sec)
```

14-

```
mysql> select floor(OrderAmount ) from CustomerDetails;
+-----+
| floor(OrderAmount ) |
+-----+
| 2000 |
| 2200 |
| 2005 |
| 3000 |
| 2000 |
| 2000 |
| 2000 |
| 2300 |
| 2040 |
| 2000 |
| 2230 |
| 2020 |
+-----+
12 rows in set (0.02 sec)
```

15-

```
MySQL 8.0 Command Line Client
mysql> select ceil(OrderAmount ) from CustomerDetails;
+-----+
| ceil(OrderAmount ) |
+-----+
| 2001 |
| 2201 |
| 2006 |
| 3001 |
| 2001 |
| 2001 |
| 2001 |
| 2301 |
| 2041 |
| 2001 |
| 2231 |
| 2021 |
+-----+
12 rows in set (0.00 sec)
```

16-

```
mysql> select AgentCode,sum(OrderAmount ) from CustomerDetails group by AgentCode;
```

AgentCode	sum(OrderAmount)
12	2000.0100
11	2200.0100
13	2005.0100
32	5020.0200
17	2000.0100
22	4000.0200
23	6530.0300
45	2040.0100

```
8 rows in set (0.00 sec)
```

17-

```
MySQL 8.0 Command Line Client

mysql> select AgentCode,sum(OrderAmount ) from CustomerDetails group by AgentCode having sum(OrderAmount)>15000;
Empty set (0.04 sec)

mysql> select AgentCode,sum(OrderAmount ) from CustomerDetails group by AgentCode having sum(OrderAmount)>1500;
```

AgentCode	sum(OrderAmount)
12	2000.0100
11	2200.0100
13	2005.0100
32	5020.0200
17	2000.0100
22	4000.0200
23	6530.0300
45	2040.0100

```
8 rows in set (0.00 sec)
```

18-

```
mysql> select AgentCode,count(CustomerID ) from CustomerDetails group by AgentCode order by count(CustomerID) desc;
```

AgentCode	count(CustomerID)
23	3
32	2
22	2
12	1
11	1
13	1
17	1
45	1

```
8 rows in set (0.00 sec)

mysql> select AgentCode,count(CustomerID ) from CustomerDetails group by AgentCode order by count(CustomerID) asc;
```

AgentCode	count(CustomerID)
12	1
11	1
13	1
17	1
45	1
32	2
22	2
23	3

```
8 rows in set (0.00 sec)
```