

Assignment 4

DDL Commands

```
mysql> USE order_management_system;
ERROR 1049 (42000): Unknown database 'order_management_system'
mysql> CREATE DATABASE order_management_system;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> USE order_management_system;
Database changed
mysql>
mysql> CREATE TABLE customer( cust_id int, fname varchar(20),
lname varchar(20), house_no varchar(5), street_no varchar(5),
street_name varchar(15), city varchar(20), zipcode int, phone_no
int, PRIMARY KEY(cust_id));
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> desc customer;
```

Field	Type	Null	Key	Default	Extra
cust_id	int	NO	PRI	NULL	
fname	varchar(20)	YES		NULL	
lname	varchar(20)	YES		NULL	
house_no	varchar(5)	YES		NULL	
street_no	varchar(5)	YES		NULL	
street_name	varchar(15)	YES		NULL	
city	varchar(20)	YES		NULL	
zipcode	int	YES		NULL	
phone_no	int	YES		NULL	

```
9 rows in set (0.01 sec)
```

```
mysql> ALTER TABLE customer modify fname varchar(20) NOT NULL,
modify lname varchar(20) NOT NULL, modify house_no varchar(5) NOT
NULL, modify street_no varchar(5) NOT NULL, modify street_name
varchar(15) NOT NULL, modify city varchar(20) NOT NULL, modify
zipcode int NOT NULL, modify phone_no int NOT NULL;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc customer;
```

Field	Type	Null	Key	Default	Extra
cust_id	int	NO	PRI	NULL	
fname	varchar(20)	NO		NULL	
lname	varchar(20)	NO		NULL	

cat_id	int	NO	PRI	NULL		
name	varchar(20)	NO		NULL		

2 rows in set (0.00 sec)

```
mysql> CREATE TABLE product(product_id int, name varchar(20) NOT
NULL, manufacturer varchar(20) NOT NULL, price float NOT NULL,
stock int NOT NULL, cat_id int NOT NULL, PRIMARY KEY(product_id),
FOREIGN KEY(cat_id) REFERENCES category(cat_id));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> desc product;
```

Field	Type	Null	Key	Default	Extra
product_id	int	NO	PRI	NULL	
name	varchar(20)	NO		NULL	
manufacturer	varchar(20)	NO		NULL	
price	float	NO		NULL	
stock	int	NO		NULL	
cat_id	int	NO	MUL	NULL	

6 rows in set (0.00 sec)

```
mysql> ALTER TABLE product MODIFY name varchar(35), MODIFY
manufacturer varchar(35);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc product;
```

Field	Type	Null	Key	Default	Extra
product_id	int	NO	PRI	NULL	
name	varchar(35)	YES		NULL	
manufacturer	varchar(35)	YES		NULL	
price	float	NO		NULL	
stock	int	NO		NULL	
cat_id	int	NO	MUL	NULL	

6 rows in set (0.00 sec)

```
mysql> CREATE TABLE selects(order_id int NOT NULL, product_id int
NOT NULL, quantity int NOT NULL, price float NOT NULL, FOREIGN
KEY(order_id) REFERENCES orders(order_id),FOREIGN KEY(product_id)
REFERENCES product(product_id));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> desc selects;
```

Field	Type	Null	Key	Default	Extra
-------	------	------	-----	---------	-------

order_id	int	NO	MUL	NULL		
product_id	int	NO	MUL	NULL		
quantity	int	NO		NULL		
price	float	NO		NULL		

4 rows in set (0.00 sec)

```
mysql> ALTER TABLE selects add PRIMARY KEY(order_id, product_id);
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc selects;
```

Field	Type	Null	Key	Default	Extra
order_id	int	NO	PRI	NULL	
product_id	int	NO	PRI	NULL	
quantity	int	NO		NULL	
price	float	NO		NULL	

4 rows in set (0.00 sec)

```
mysql> show tables;
```

Tables_in_order_management_system
category
customer
orders
product
selects

5 rows in set (0.00 sec)

DCL Commands

```
mysql> select user from mysql.user;
```

user
mysql.infoschema
mysql.session
mysql.sys
root

4 rows in set (0.00 sec)

```
mysql> create user someshwar;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select user from mysql.user;
```

```
+-----+
| user          |
+-----+
| someshwar     |
| mysql.infoschema |
| mysql.session |
| mysql.sys     |
| root          |
+-----+
5 rows in set (0.00 sec)
```

```
mysql> use order_management_system;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
```

```
Database changed
mysql> grant select on customer to someshwar;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> exit
Bye
Someshwars-MacBook-Pro:~ someshwargaikwad$ mysql -u someshwar
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 8.0.21 MySQL Community Server - GPL
```

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

```
mysql> use order_management_system;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
```

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

cust_id	fname	lname	house_no	street_no	street_name	city	zipcode	phone_no
49	Harsh	Sakhrani	32/A	21	East Street	Pune	411041	999922221
50	Saloni	Parekh	20/C	29	S Street	Pune	411039	809427221
51	Anuj	Saoji	12/C	69	West Street	Kolhapur	211039	809417221
52	Onkar	Sharma	30/D	1	Rich Street	Mumbai	111039	609427221
53	Prathamesh	Shiralkar	33/B	11	North Street	Nagpur	361232	899422221
54	Muskaan	Shraogi	32/A	91	Back Street	Nasik	311232	999422221
55	Shreyas	Kalrao	17/B	51	No Street	Pune	411032	899427221

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

```
mysql> drop table selects;
```

```
ERROR 1142 (42000): DROP command denied to user
'someshwar'@'localhost' for table 'selects'
mysql> select * from orders;
ERROR 1142 (42000): SELECT command denied to user
'someshwar'@'localhost' for table 'orders'
mysql> exit
```

Bye

```
Someshwars-MacBook-Pro:~ someshwargaikwad$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 13
Server version: 8.0.21 MySQL Community Server - GPL
```

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

```
mysql> revoke select on order_management_system.customer from
someshwar;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> exit
```

Bye

```
Someshwars-MacBook-Pro:~ someshwargaikwad$ mysql -u someshwar
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 14
Server version: 8.0.21 MySQL Community Server - GPL
```

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

```
mysql> use order_management_system;
ERROR 1044 (42000): Access denied for user 'someshwar'@'%' to
database 'order_management_system'
mysql> exit
```

Bye

```
Someshwars-MacBook-Pro:~ someshwargaikwad$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
```

Your MySQL connection id is 15
Server version: 8.0.21 MySQL Community Server - GPL

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

```
mysql> drop user someshwar;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select user from mysql.user;
```

```
+-----+
| user          |
+-----+
| mysql.infoschema |
| mysql.session   |
| mysql.sys       |
| root            |
+-----+
```

4 rows in set (0.00 sec)

TCL Commands

```
mysql> use order_management_system;
Database changed
mysql> start transaction;
Query OK, 0 rows affected (0.00 sec)
```

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

cust_id	fname	lname	house_no	street_no	street_name	city	zipcode	phone_no
49	Harsh	Sakhrani	32/A	21	East Street	Pune	411041	999922221
50	Saloni	Parekh	20/C	29	S Street	Pune	411039	809427221
51	Anuj	Saoji	12/C	69	West Street	Kolhapur	211039	809417221
52	Onkar	Sharma	30/D	1	Rich Street	Mumbai	111039	609427221
53	Prathamesh	Shiralkar	33/B	11	North Street	Nagpur	361232	899422221
54	Muskaan	Shraogi	32/A	91	Back Street	Nasik	311232	999422221
55	Shreyas	Kalrao	17/B	51	No Street	Pune	411032	899427221

7 rows in set (0.00 sec)

```
mysql> savepoint s1;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> delete from customer where cust_id=53;
Query OK, 1 row affected (0.01 sec)
```

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

cust_id	fname	lname	house_no	street_no	street_name	city	zipcode	phone_no
---------	-------	-------	----------	-----------	-------------	------	---------	----------

49	Harsh	Sakhrani	32/A	21	East Street	Pune	411041	999922221
50	Saloni	Parekh	20/C	29	S Street	Pune	411039	809427221
51	Anuj	Saoji	12/C	69	West Street	Kolhapur	211039	809417221
52	Onkar	Sharma	30/D	1	Rich Street	Mumbai	111039	609427221
54	Muskaan	Shraogi	32/A	91	Back Street	Nasik	311232	999422221
55	Shreyas	Kalrao	17/B	51	No Street	Pune	411032	899427221

6 rows in set (0.00 sec)

mysql> rollback to s1;

Query OK, 0 rows affected (0.00 sec)

mysql> select * from customer;

49	Harsh	Sakhrani	32/A	21	East Street	Pune	411041	999922221
50	Saloni	Parekh	20/C	29	S Street	Pune	411039	809427221
51	Anuj	Saoji	12/C	69	West Street	Kolhapur	211039	809417221
52	Onkar	Sharma	30/D	1	Rich Street	Mumbai	111039	609427221
53	Prathamesh	Shiralkar	33/B	11	North Street	Nagpur	361232	899422221
54	Muskaan	Shraogi	32/A	91	Back Street	Nasik	311232	999422221
55	Shreyas	Kalrao	17/B	51	No Street	Pune	411032	899427221

7 rows in set (0.00 sec)

mysql> commit;

Query OK, 0 rows affected (0.00 sec)

mysql> start transaction;

Query OK, 0 rows affected (0.00 sec)

mysql> select * from customer;

49	Harsh	Sakhrani	32/A	21	East Street	Pune	411041	999922221
50	Saloni	Parekh	20/C	29	S Street	Pune	411039	809427221
51	Anuj	Saoji	12/C	69	West Street	Kolhapur	211039	809417221
52	Onkar	Sharma	30/D	1	Rich Street	Mumbai	111039	609427221
53	Prathamesh	Shiralkar	33/B	11	North Street	Nagpur	361232	899422221
54	Muskaan	Shraogi	32/A	91	Back Street	Nasik	311232	999422221
55	Shreyas	Kalrao	17/B	51	No Street	Pune	411032	899427221

7 rows in set (0.00 sec)

mysql> savepoint s1;

Query OK, 0 rows affected (0.00 sec)

mysql> insert into customer values(56,"Someshwar","Gaikwad","94/A","31","Sarvodaya","Pune",411036,77506874);

Query OK, 1 row affected (0.00 sec)

mysql> select * from customer;

49	Harsh	Sakhrani	32/A	21	East Street	Pune	411041	999922221
50	Saloni	Parekh	20/C	29	S Street	Pune	411039	809427221
51	Anuj	Saoji	12/C	69	West Street	Kolhapur	211039	809417221
52	Onkar	Sharma	30/D	1	Rich Street	Mumbai	111039	609427221
53	Prathamesh	Shiralkar	33/B	11	North Street	Nagpur	361232	899422221
54	Muskaan	Shraogi	32/A	91	Back Street	Nasik	311232	999422221
55	Shreyas	Kalrao	17/B	51	No Street	Pune	411032	899427221
56	Someshwar	Gaikwad	94/A	31	Sarvodaya	Pune	411036	77506874

8 rows in set (0.00 sec)

mysql> rollback to s1;

Query OK, 0 rows affected (0.00 sec)

mysql> select * from customer;

cust_id	fname	lname	house_no	street_no	street_name	city	zipcode	phone_no
49	Harsh	Sakhrani	32/A	21	East Street	Pune	411041	999922221
50	Saloni	Parekh	20/C	29	S Street	Pune	411039	809427221
51	Anuj	Saoji	12/C	69	West Street	Kolhapur	211039	809417221
52	Onkar	Sharma	30/D	1	Rich Street	Mumbai	111039	609427221
53	Prathamesh	Shiralkar	33/B	11	North Street	Nagpur	361232	899422221
54	Muskaan	Shraogi	32/A	91	Back Street	Nasik	311232	999422221
55	Shreyas	Kalrao	17/B	51	No Street	Pune	411032	899427221

7 rows in set (0.00 sec)

mysql> commit;

Query OK, 0 rows affected (0.00 sec)

