BS-Information Technology
4th Semester

FOOD DELIVERY SYSTEM

CC-215 DATABASE SYSTEMS

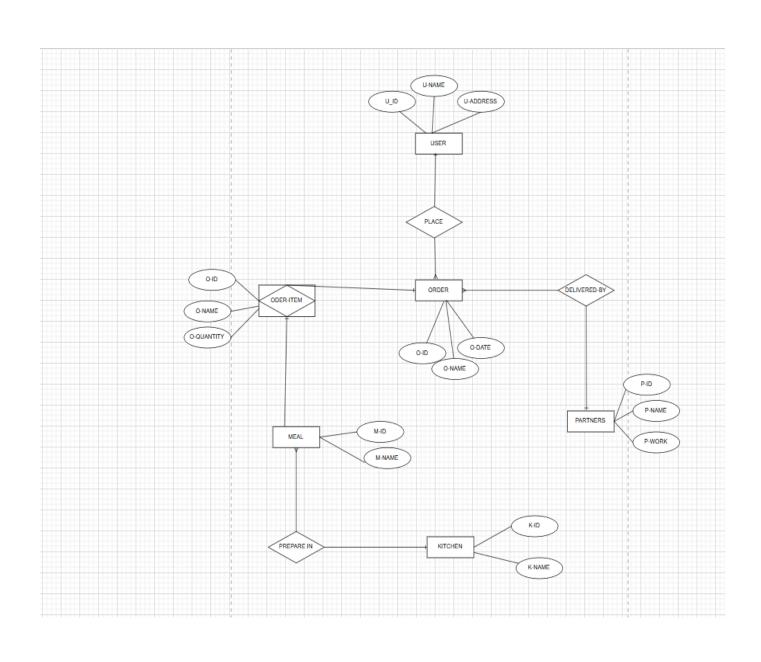
Prepared by:

Khadija (110811) Amina shehzadi (106411)

GROUP 19 (Morning)

Entity Relationship Diagrams:





Relational Schema / Table Schema:

- \rightarrow **User** (<u>User ID</u>, Name, Address)
- \rightarrow **Partners** (Partner ID, Name, Work, penalties)
- \rightarrow **Order** (Order ID, Date, u-id(F.K), p-id(F.K))
- \rightarrow **Order tem** (item id, item_name, <u>Order ID</u> (F.K), Quantity)
- \rightarrow Meal (Meal ID, Name, Rating_score, complain_description, or_ID (F.K), kit_ID (F.K))
- \rightarrow **Kitchen** (Kitchen ID, Name)

Normalization:

All tables normalized except the Oder items.

Dependency: (Partial dependency)

Item-id---->Item-name

Item-id+Oder-id----->Quantity

 \rightarrow To resolve, create two tables from orderitem

Item (Item-id, name)

orderItem (Item-id (F.K) , ord-id (F.K) , quantity)

Normalized Relational Schemas

- \rightarrow **User** (<u>User ID</u>, Name, Address)
- \rightarrow **Partners** (<u>Partner ID</u>, Name, Work, penalties)
- \rightarrow Order (Order ID, Date, u-id(F.K), p-id(F.K))
- \rightarrow **Items** (item id, name)
- \rightarrow Order tem (Order ID (F.K), Item ID (F.K), Quantity)
- \rightarrow **Meal** (Meal ID, Name, Rating_score, complain_description, or_ID (F.K), kit_ID (F.K))
- \rightarrow Kitchen (<u>Kitchen ID</u>, Name)

USEFUL COMMANDS

- \rightarrow Show databases
- \rightarrow Create database
- \rightarrow Use database
- \rightarrow Show tables
- \rightarrow Create tables
- \rightarrow Describe table
- \rightarrow Insert into
- \rightarrow Update

\rightarrow Alter
\rightarrow Select
\rightarrow Arithmetic
→ Aggregrate
ightarrow Logical
\rightarrow Relational
\rightarrow Distinct
ightarrow Group by
ightarrow Group by having
\rightarrow In
→ Like
ightarrow Order by ASC and DESC
→ Join queries
ightarrow Joining tables using where clause
ightarrow Sub queries
\rightarrow IN, ALL, ANY
ightarrow Create view
ightarrow Select from view
ightarrow Delete
ightarrow Drap
ightarrow Truncate
ightarrow Show priveleges
ightarrow User and roll
ightarrow Show grants

Commands for database

Show databases

• Create and Use database

```
mysql> create database FOOD_DELIVERY;
Query OK, 1 row affected (0.01 sec)
mysql> use FOOD_DELIVERY;
Database changed
```

Commands for tables

1.User

→ Create and describe

→ INSERT INTO

```
mysql> INSERT INTO user Values('1','khadija','sheikhupura'),('2','amna','sheikhupura'),('3','zainab','');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

→ <u>Update</u>

```
mysql> update user set user_address='sheikhupura' where user_id='3';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

→ Select *

→ Select 1 column

```
mysql> select user_id from user;

+-----+

| user_id |

+-----+

| 1 |

| 2 |

| 3 |

+-----+
```

→ Select 1 column (target-value)

→ Select 2 columns (target-value)

```
mysql> select user_name, user_address from user where user_id='1';
+-----+
| user_name | user_address |
+-----+
| khadija | sheikhupura |
+-----+
1 row in set (0.00 sec)
```

2. Partners

→ Create and describe

```
mysql> create table partners(partner_id INT(5) PRIMARY KEY, partner_name Varchar(25) NOT NULL, work Varchar(25), no_of_penalties INT(5));

Query OK, 0 rows affected, 2 warnings (0.03 sec)

mysql> DESCRIBE partners;

Field | Type | Null | Key | Default | Extra |

| partner_id | int | NO | PRI | NULL | |

| partner_name | varchar(25) | NO | NULL | |

| work | varchar(25) | YES | NULL |

| no_of_penalties | int | YES | NULL |

4 rows in set (0.00 sec)
```

→ INSERT INTO

```
mysql> INSERT INTO partners Values(201,'sarab','packaging',1),(202,'abdul rehman','holding to rider',1),(203,'hamza','riding to destination',NULL);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

→ **Update**

```
mysql> update partners set no_of_penalties='1' where partner_id='203';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

→ Select *

→ Select 1 column

→ Select 1 column (target-value)

```
mysql> select partner_name from partners where partner_id='202';
+-----+
| partner_name |
+------+
| abdul rehman |
+------+
1 row in set (0.00 sec)
```

→ Select 2 columns (target-value)

3. Orders

→ Create and describe

→ Adding new columns

```
mysql> alter table orders Add p_id INT(5);
Query OK, 0 rows affected, 1 warning (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 1
mysql> describe orders;
Field
               Туре
                                    | Null | Key | Default | Extra |
  order_id
order_date
                  int
                                      NO
                                               PRI
                                                       NULL
                                     NO
YES
YES
                                               MUL
  u id
                   int
                                                       NULL
                                                       NULL
  rows in set (0.00 sec)
mysql> alter table orders Add u_id INT(5)
Query OK, 0 rows affected, 1 warning (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 1
mysql> describe orders;
                               | Null | Key | Default | Extra |
                Type
  order_id
                 int
                                                      NULL
  order_date | varchar(25)
u_id | int
                                   NO
                                                      NULL
  u_id
                                   İ YES
                                                      NULL
3 rows in set (0.00 sec)
```

→ making foreign keys

```
mysql> alter table orders Add constraint fk_const_name FOREIGN KEY (p_id) REFERENCES partners(partner_id);
Query OK, 0 rows affected (0.09 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> describe orders;
Field
                    | Null | Key | Default | Extra |
                     NO
order_id | int
                            PRI | NULL
 order_date | varchar(25) | NO
                                 NULL
 u id
          int
                      YES
                            MUL | NULL
p_id
          int
                     YES | MUL | NULL
4 rows in set (0.00 sec)
mysql> alter table orders Add constraint fk_constraint_name FOREIGN KEY (u_id) REFERENCES user(user_id);
Query OK, 0 rows affected (0.15 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> describe orders;
 Field | Type | Null | Key | Default | Extra |
 -----
 order_date | varchar(25) | NO |
                                NULL
u_id | int | YES | MUL | NULL
```

→ INSERT INTO

3 rows in set (0.00 sec)

```
mysql> INSERT INTO orders Values(101,'5th May','1',201),(102,'6th May','2',202),(103,'7th May','3',NULL);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

→ Update

```
mysql> update orders set p_id='203' where order_id='103';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

→ Select *

→ Select 1 column

→ Select 1 column (target-value)

→ Select 2 columns (target-value)

4.<u>Items</u>

→ Create and describe

→ INSERT INTO

```
mysql> INSERT INTO items Values(301,'burger'),(302,'biryani'),(303,'');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

→ **Update**

```
mysql> update items set item_name='nuggets' where item_id='303';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

→ Select *

```
mysql> select * from items;
+-----+
| item_id | item_name |
+-----+
| 301 | burger |
| 302 | biryani |
| 303 | nuggets |
+-----+
```

→ <u>Select 1 column</u>

```
mysql> select item_id from items;
+-----+
| item_id |
+-----+
| 301 |
| 302 |
| 303 |
+-----+
3 rows in set (0.00 sec)
```

→ Select 1 column (target-value)

```
mysql> select item_name from items where item_id='303';
+-----+
| item_name |
+-----+
| nuggets |
+-----+
1 row in set (0.00 sec)
```

→ Select 2 columns (target-value)

```
mysql> select item_id,item_name from items where item_id='301';

+-----+

| item_id | item_name |

+-----+

| 301 | burger |

+-----+
```

5.OrderItem

→ Create and describe

→ Adding new columns and making foreign keys

→ INSERT INTO

```
mysql> INSERT INTO orderItem Values('3','101','301'),('3','102','302'),('3','103',NULL);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

→ **Update**

```
mysql> update orderItem set it_id='303' where or_id='103';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

→ Select *

→ Select 1 column

```
mysql> select it_id from orderItem;

+-----+

| it_id |

+-----+

| 301 |

| 302 |

| 303 |

+-----+

3 rows in set (0.00 sec)
```

→ Select 1 column (target-value)

```
mysql> select quantity from orderItem where it_id='302';
+-----+
| quantity |
+------+
| 3 |
+-----+
1 row in set (0.00 sec)
```

→ Select 2 columns (target-value)

```
mysql> select quantity, or_id from orderItem where it_id='301';

+------+
| quantity | or_id |

+-------+
| 3 | 101 |

+------+
1 row in set (0.00 sec)
```

6.Kitchen

→ Create and describe

→ INSERT INTO

```
mysql> INSERT INTO kitchen Values(401,'rustam foods'),(402,'mehar baba'),(403,'');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

→ Update

```
mysql> update kitchen set kitchen_name='food master' where kitchen_id='403';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

→ Select *

→ Select 1 column

→ Select 1 column (target-value)

→ Select 2 columns (target-value)

```
mysql> select kitchen_name, kitchen_id from kitchen where kitchen_id='401';
+------+
| kitchen_name | kitchen_id |
+-----+
| rustam foods | 401 |
+-----+
1 row in set (0.00 sec)
```

7.Meal

→ Create, adding and describe

→ Making foreign keys

```
mysql> alter table meal Add constraint fk_c_name FOREIGN KEY (ord_id) REFERENCES orders(order_id);
Query OK, 0 rows affected (0.09 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> alter table meal Add constraint fk_cn_name FOREIGN KEY (kit_id) REFERENCES kitchen(kitchen_id);
Query OK, 0 rows affected (0.12 sec)
Records: 0 Duplicates: 0 Warnings: 0
mvsql> describe meal:
                                          | Null | Key | Default | Extra
 meal\_id
                                            NO
                                                           NULL
                            varchar(25)
 meal_name
                                            NO
                                                           NULL
 rating score
                                            YES
                                                           NULL
                            varchar(25)
 complain_description
                                            YES
                                                           NULL
 ord_id
                                                           NULL
                                                   MUL
                                                           NULL
 rows in set (0.00 sec)
```

→ INSERT INTO

```
mysql> INISERT INTO meal Values(501, 'super offer', '4', 'no complain', '101', '401'),(502, 'special party', '3', 'late delivery', '102', '402'),(503, 'night craving', '2', 'poor packaging', '103'
NULL);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

→ Update

```
mysql> update meal set kit_id='403' where meal_id='503';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

→ Select *

→ Select 1 column

→ Select 1 column (target-value)

→ Select 2 columns (target-value)

→ As command

OTHER IMPORTANT QUERIES IN SELECT

→ Arithmetic

→ Distinct

```
mysql> select distinct no_of_penalties from partners;
+-----+
| no_of_penalties |
+-----+
| 1 |
| 2 |
+-----+
2 rows in set (0.00 sec)
```

→ Aggregrate

```
mysql> select AVG(no_of_penalties) as average_penalties from partners;
average_penalties |
          1.3333
1 row in set (0.00 sec)
mysql> select count(*) from partners;
| count(*) |
1 row in set (0.00 sec)
mysql> select count(no_of_penalties) from partners;
| count(no_of_penalties) |
1 row in set (0.00 sec)
mysql> select MAX(no_of_penalties) as most_penalties from partners;
 most_penalties
       2
1 row in set (0.00 sec)
mysql> select SUM(no_of_penalties) as total_penalties from partners;
 total_penalties |
              4 |
1 row in set (0.00 sec)
```

→ Logical

```
mysql> select partner_name from partners where no_of_penalties>=1 AND no_of_penalties<=2;
 sarab
 abdul rehman
 hamza
 rows in set (0.00 sec)
mysql> select partner_name from partners where work='packaging' AND no_of_penalties between 0 AND 2;
 partner_name
 sarab
 row in set (0.00 sec)
nysql> select partner_name from partners where work='packaging' AND no_of_penalties between 1 AND 2;
 partner_name |
 sarab
 row in set (0.00 sec)
nysql> select partner_name from partners where work='packaging' OR no_of_penalties between 2 AND 3;
 partner name |
 sarab
 rows in set (0.00 sec)
```

→ Relational

\rightarrow In

→ Order by ASC and DESC

```
mysql> select partner_name from partners order by no_of_penalties;

+-----+
| partner_name |
+-----+
| sarab |
| abdul rehman |
| hamza |
+-----+
mysql> select partner_name from partners order by no_of_penalties DESC;
+-----+
| partner_name |
+------+
| hamza |
| sarab |
| abdul rehman |
+-------+
3 rows in set (0.00 sec)
```

\rightarrow Like

\rightarrow Group by

```
mysql> select AVG(no_of_penalties) as average_penalties from partners group by no_of_penalties;
+-----+
| average_penalties |
+-----+
| 1.0000 |
| 2.0000 |
+-----+
2 rows in set (0.00 sec)
```

→ Group by having

JOIN QUERIES

→ Inner join

```
mysql> select meal.meal_name, kitchen.kitchen_name from meal INNER JOIN kitchen ON kitchen.kitchen_id>meal.kit_id;
 meal name
                | kitchen_name
 super offer
                mehar baba
 super offer
                 food master
 special party | food master
3 rows in set (0.00 sec)
nysql> select meal.meal name, kitchen.kitchen_name from meal INNER JOIN kitchen ON kitchen.kitchen_id!=meal.kit_id;
 meal_name
               | kitchen_name
 night craving | rustam foods
 special party
                 rustam foods
 night craving
                 mehar baba
                 mehar baba
 super offer
 special party
                 food master
                food master
 super offer
 rows in set (0.00 sec)
nysql> select meal.meal name, kitchen.kitchen name from meal INNER JOIN kitchen ON kitchen.kitchen id=meal.kit id;
 meal name
               | kitchen name
 super offer
                rustam foods
                mehar baba
 special party
 night craving | food master
 rows in set (0.00 sec)
```

→ Natural join

```
mysql> select meal.meal name, kitchen.kitchen name from meal NATURAL JOIN kitchen;
               | kitchen_name
 meal name
 night craving | rustam foods
 special party | rustam foods
                rustam foods
 super offer
 night craving | mehar baba
 special party | mehar baba
 super offer
                 mehar baba
 night craving | food master
 special party | food master
 super offer
                food master
 rows in set (0.00 sec)
```

→ Cross join

```
nysql> select meal.meal_name, kitchen.kitchen_name from meal CROSS JOIN kitchen;
 meal_name
                   | kitchen_name
 night craving | rustam foods
special party | rustam foods
 special party
  super offer
                   rustam foods
 night craving |
                    mehar baba
                    mehar baba
  special party
  super offer
                   mehar baba
 super offer
night craving | food master
special party | food master
super offer | food master
9 rows in set (0.00 sec)
mysql> select DISTINCT meal.meal_name, kitchen.kitchen_name from meal CROSS JOIN kitchen;
                    kitchen_name
 meal_name
 night craving | rustam foods
special party | rustam foods
  super offer
                    rustam foods
 night craving |
                    mehar baba
                    mehar baba
  special party
  super offer
                    mehar baba
 night craving |
                    food master
  special party
                    food master
 super offer
                   food master
 rows in set (0.00 sec)
```

→ Left and Right join

```
mysql> select meal.meal name, kitchen.kitchen name from meal RIGHT JOIN kitchen ON kitchen.kitchen id=meal.kit id;
 meal_name
                | kitchen_name |
 super offer
                 rustam foods
                 mehar baba
 special party |
 night craving | food master
 rows in set (0.00 sec)
mysql> select meal.meal name, kitchen.kitchen name from meal LEFT JOIN kitchen ON kitchen.kitchen id=meal.kit id;
 meal name
                | kitchen name
 super offer
                 rustam foods
 special party
                 mehar baba
 night craving | food master
 rows in set (0.00 sec)
```

→ Joining tables using where clause

```
ysql> select employee.emp_name, employee.dept_no,employee.salary,department.dept_name from employee,department where department.dept_no!=employee.dept_no;
emp_name | dept_no | salary | dept_name
Arooba
                   101
                                     mydept
                   101
                            15000
                                     emp_union
finance
Arooba
Arooba
                           15000
                   101
                   101
101
                            2100
2100
                                     mydept
emp_union
zainab
zainab
zainab
                   101
                                     finance
                   101
                            2100
zainab
                                     mydept
Amna
Amna
                   102
102
                           12000
12000
                                     emp_union finance
Amna
khadija
                   102
102
                           12000
1500
                                     marketing
                                     mydept
emp_union
finance
                             1500
khadija
                             1500
                                     marketing
laila
laila
                   103
103
                            2200
2200
                                     mydept
emp_union
                                     marketing
laila
                            2200
                   104
                                     mydept
finance
                   104
104
fatima
                           13000
 fatima
                   104
                                     marketing
rows in set (0.00 sec)
```

mysql> select employee. emp_name, employee.salary, employee.grade_no from employee, grade where employee.salary BETWEEN grade.lo_sal AND grade.hi_sal;

emp_name	salary	grade_no
Arooba	15900	4
Arooba	15900	4
Anna	12000	4
Anna	12000	4
fatima	13000	2
fatima	13000	2
fatima	13000	2
fatima	salary	grade_no
emp_name	salary	grade_no
emp_name	salary	grade_no
Arooba	15900	4
Anna	12000	4
fatima	13000	2
arooba	15900	4
fatima	13000	2
arooba	15900	4
fatima	13000	2

→ Joining 3 tables using where clause

Sub-queries including IN, ALL, ANY

```
mysql> select meal_name, kit_id from meal where rating_score=(select min(rating_score) from meal);
               | kit_id |
 meal name
                    403
 night craving
 row in set (0.00 sec)
nysql> select meal_name, kit_id from meal where rating_score=(select max(rating_score) from meal);
 super offer
                  401
 row in set (0.00 sec)
nysql> select meal_name, kit_id from meal where rating_score=(select avg(rating_score) from meal);
               | kit_id |
 meal name
 special party |
                    402
 row in set (0.00 sec)
mysql> select meal_name, kit_id from meal where rating_score> ANY(select avg(rating_score) from meal group by kit_id);
 meal_name
               | kit_id |
 super offer
                    401
 special party
                    402
 rows in set (0.00 sec)
nysql> select meal_name, kit_id from meal where rating_score> ANY(select max(rating_score) from meal group by kit_id);
 meal_name
               | kit_id |
 super offer
                    401
 special party
 rows in set (0.00 sec)
nysql> select meal_name, kit_id from meal where rating_score> ALL(select max(rating_score) from meal group by kit_id);
Empty set (0.00 sec)
nysql> select meal_name, kit_id from meal where rating_score IN(select max(rating_score) from meal group by kit_id);
               | kit_id |
 meal_name
                    401
 special party
                    402
 night craving
                    403
 rows in set (0.00 sec)
```

Create and show View

```
mysql> create view my_view A5 select min(rating_score), max(rating score) from meal group by kit_id;

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 'score) from meal group by kit_id' at line 1 mysql> create view my_view A5 select min(rating_score), max(rating_score) from meal group by kit_id;

Query OK, 0 rows affected (0.01 sec)

mysql> select * from my_view;

| min(rating_score) | max(rating_score) |

| 4 | 4 |
| 3 | 3 |
| 2 | 2 |
| 3 rows in set (0.00 sec)
```

practice database

Delete, drop, truncate tables and rows

```
mysql> drop table teacher;
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> delete from course where c_name='Math';
Query OK, 1 row affected (0.01 sec)

mysql> select *from course;

+----+

| c_ID | c_name |

+----+

1 101 | DSA |

| 102 | Database |

+----+

2 rows in set (0.00 sec)
```

SHOW PRIVELEGES

```
ysql> show privileges;
Privilege
                                                                       | Context
                                                                                                                                                                      | Comment
                                                                                                                                                                          To alter the table
                                                                           Tables
                                                                                                                                                                         To alter the table
To alter or drop stored functions/procedures
To create new databases and tables
To use CREATE FUNCTION/PROCEDURE
To create new roles
To use CREATE TEMPORARY TABLE
To create new views
To create new users
To delete existing rows
To drop databases, tables, and views
To drop roles
To create, alter, drop and execute events
Alter routine
Create
                                                                          Functions, Procedures
Databases, Tables, Indexes
Create routine
Create role
                                                                          Databases
Server Admin
Create temporary tables
Create view
                                                                          Databases
Create user
Delete
                                                                           Server Admin
                                                                         Databases, Tables
Server Admin
Server Admin
Drop
Drop role
                                                                                                                                                                          To create, alter, drop and execute events
To execute stored routines
To read and write files on the server
To give to other users those privileges you possess
 Event
                                                                          Functions, Procedures
File access on server
Databases, Tables, Functions, Procedures
 Execute
File
 Grant option
 Index
                                                                           Tables
                                                                                                                                                                         To create or drop indexes
To insert data into tables
To use LOCK TABLES (together with SELECT privilege)
To view the plain text of currently executing queries
To make proxy user possible
To have references on tables
To reload or refresh tables, logs and privileges
To ask where the slave or master servers are
To read binary log events from the master
To retrieve rows from table
To see all databases with SHOW DATABASES
To see views with SHOW CREATE VIEW
To shut down the server
To use KILL thread, SET GLOBAL, CHANGE MASTER, etc.
To use triggers
                                                                                                                                                                          To create or drop indexes
                                                                          Tables
Databases
 Insert
Lock tables
 Process
                                                                          Server Admin
Server Admin
References
Reload
                                                                          Databases,Tables
Server Admin
Replication client
Replication slave
                                                                          Server Admin
Server Admin
Tables
 Select
  Show databases
 Show view
Shutdown
                                                                           Tables
                                                                          Server Admin
Server Admin
 Super
                                                                                                                                                                         To use triggers
To use triggers
To create/alter/drop tablespaces
To update existing rows
No privileges - allow connect only
  Trigger
 Create tablespace
                                                                           Server Admin
 Update
                                                                          Server Admin
 Usage
ENCRYPTION_KEY_ADMIN
INNODB_REDO_LOG_ARCHIVE
                                                                          Server Admin
Server Admin
RESOURCE_GROUP_USER
FIREWALL_EXEMPT
                                                                           Server Admin
 SET USER ID
                                                                          Server Admin
Server Admin
 SERVICE_CONNECTION_ADMIN
GROUP_REPLICATION_ADMIN
AUDIT_ABORT_EXEMPT
                                                                           Server Admin
GROUP_REPLICATION_STREAM
CLONE_ADMIN
SYSTEM_USER
                                                                           Server Admin
                                                                           Server Admin
 AUTHENTICATION_POLICY_ADMIN
                                                                           Server Admin
 SHOW ROUTINE
BACKUP_ADMIN
CONNECTION ADMIN
                                                                          Server Admin
Server Admin
```

Create user and role, assign role to user

```
mysql> create user zainab identified by 'abc@123';
Query OK, θ rows affected (0.05 sec)

mysql> create role manager;
Query OK, θ rows affected (0.01 sec)

mysql> grant manager to zainab;
Query OK, θ rows affected (0.01 sec)
```

Show grants

mysql> show grants;
Grants for root@localhost
+
GRANT SELECT, INSERT, UPDATE, DELETE, CREATE, DROP, RELOAD, SHUTDOWN, PROCESS, FILE, REFERENCES, INDEX, ALTER, SHOW DATABASES, SUPER, CREATE TEMPORARY TABLES, LOCK TABLES, EXECUTE, REPLICATION SL AVE, REPLICATION CLIENT, CREATE VIEW, SHOW VIEW, CREATE ROUTINE, ALTER ROUTINE, CREATE USER, EVENT, TRIGGER, CREATE TABLESPACE, CREATE ROLE, DROP ROLE ON *.* TO `root'@'localhost' WITH GRANT OPTION
GRANT APPLICATION_PASSWORD_ADMIN,AUDIT_ABORT_EXEMPT,AUDIT_ADMIN,AUTHENTICATION_POLICY_ADMIN,BACKUP_ADMIN,BINLOG_ADMIN,BINLOG_ENCRYPTION_ADMIN,CLONE_ADMIN,CONNECTION_ADMIN,CONNECTION_ADMIN,CONNECTION_ADMIN,CONNECTION_ADMIN,CONNECTION_ADMIN,CONNECTION_ADMIN,CONNECTION_ADMIN,CONNECTION_ADMIN,CONNECTION_ADMIN,CONNECTION_ADMIN,FIREMALLED WINLPERSIST BO. VARIABLES, DAMIN,REPLICATION_ADMIN,ESSIOTATION_ADMIN,RESOURCE GROUP_DAMEN,RESURE_GROUP_SER,ROLE_ADMIN,SENSITIVE_VARIABLES_OBSERVER,SERVICE_CONNECTION_ADMIN,SESSION_VARIABLES_ADMIN,RESURE_GROUP_ADMIN,SENSITIVE_VARIABLES_OBSERVER,SERVICE_CONNECTION_ADMIN,SESSION_VARIABLES_ADMIN,RESURE_GROUP_ADMIN,SENSITIVE_VARIABLES_OBSERVER,SERVICE_CONNECTION_ADMIN,SESSION_VARIABLES_ADMIN,SENSION_VARIABLES_ADMIN,