

```

-- create a database
CREATE DATABASE task;

-- use task database
USE task;

-- use UserData
CREATE TABLE UserData (
    UserID INT PRIMARY KEY AUTO_INCREMENT,
    FirstName VARCHAR(50) NOT NULL ,
    LastName VARCHAR(50) NOT NULL,
    Age INT,
    Gender enum("m","f"),
    Weight float,
    Height float,
    Health_History text,
    DigitalSignature VARCHAR(256),
    AuthenticationTag VARCHAR(256)
);

-- create trigger for add AuthenticationTag and DigitalSignature
DELIMITER //
CREATE TRIGGER before_insert_UserData
BEFORE INSERT ON UserData
FOR EACH ROW
SET NEW.AuthenticationTag = 'valid', NEW.DigitalSignature =
sha2(CONCAT(NEW.FirstName,NEW.LastName, NEW.Age,
NEW.Gender,NEW.Weight,NEW.Height,NEW.Health_History, '123456890'), 256);
//
DELIMITER ;

-- create trigger for update AuthenticationTag after updating data
DELIMITER //
CREATE TRIGGER before_update_UserData
BEFORE UPDATE ON UserData
FOR EACH ROW
SET NEW.AuthenticationTag = 'invalid';
//
DELIMITER ;

-- inserting data
INSERT INTO UserData (FirstName, LastName, Age,
Gender,Weight,Height,Health_History)
VALUES
( 'Julia', 'Landry', 29, 'm', 75, 6, 'need to follow some precaution related to
health' ),
( 'Jason', 'Landry', 39, 'm', 47, 6, 'good health' ),
( 'Neena', 'Lorentz', 39, 'f', 43, 5, 'good health' ),
( 'Neena', 'OConnell', 28, 'm', 77, 6, 'good health' ),
( 'Stephen', 'Whalen', 39, 'm', 81, 5, 'need to follow some precaution related to
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( 'Bruce', 'Mallin', 46, 'f', 75, 7, 'good health' ),
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( 'Joshua', 'Mikkilineni', 24, 'm', 98, 7, 'need to follow some precausion related
to health' ),
( 'TJ', 'Mavris', 31, 'm', 62, 9, 'need to follow some precausion related to
health' ),
( 'Matthew', 'Hartstein', 48, 'f', 42, 6, 'need to follow some precausion related
to health' ),
( 'Susan', 'Ernst', 25, 'f', 80, 6, 'need to tak care of health' ),
( 'Kevin', 'Higgins', 37, 'f', 40, 6, 'good health' ),
( 'Nancy', 'OConnell', 39, 'm', 56, 5, 'need to follow some precausion related to
health' ),
( 'Douglas', 'Baida', 21, 'f', 40, 5, 'good health' ),
( 'James', 'Vollman', 39, 'm', 71, 6, 'need to follow some precausion related to
health' ),
( 'Bruce', 'Faviet', 32, 'f', 64, 5, 'good health' ),
( 'Steven', 'Nayer', 24, 'f', 70, 7, 'good health' );
```

```
-- created three users
```

```
create user 'HGroupUser'@'localhost' identified by 'HGroupUser';
create user 'RGroupUser'@'localhost' identified by 'RGroupUser';
create user 'AdminGroupUser'@'localhost' identified by 'AdminGroupUser';
```

```
-- RgroupUser Have see a data expect first name and last name
```

```
GRANT SELECT (UserID ,Age , Gender ,Weight ,Height ,Health_History) ON
task.userdata TO 'RGroupUser'@'localhost';
```

```
-- HGroupUser are able insert or see data
```

```
GRANT SELECT, INSERT ON task.userdata TO 'HGroupUser'@'localhost';
```

```
-- AdminGroupUser have all access of database
```

```
GRANT ALL PRIVILEGES ON *.* TO 'AdminGroupUser'@'localhost' WITH GRANT OPTION;
FLUSH PRIVILEGES;
```

```
select * from userdata;
```

```
SHOW GRANTS FOR 'HGroupUser'@'localhost';
```

```
SHOW GRANTS FOR 'RGroupUser'@'localhost';
```

```
SHOW GRANTS FOR 'AdminGroupUser'@'localhost';
```


