SQL CREATE DATABASE

```
CREATE DATABASE testDB;
```

SQL DROP DATABASE

```
DROP DATABASE testDB;
```

CREATE TABLE

```
CREATE TABLE Persons (
    PersonID int,
    LastName varchar(255),
    FirstName varchar(255),
    Address varchar(255),
    City varchar(255)
);
```

INSERT INTO

```
INSERT INTO persons  ( PersonID ,LastName ,FirstName ,Address ,City)
VALUES (1, 'Erichsen', 'Skagen', 'lko',  'Norway');
INSERT INTO persons  ( PersonID ,LastName ,FirstName ,Address ,City)
VALUES (2, 'Eric', 'Skag', 'lko',  'Norway');
INSERT INTO persons  ( PersonID ,LastName ,FirstName ,Address ,City)
VALUES (3, 'Erichsen', 'Skagen', 'india',  'mum');
INSERT INTO persons  ( PersonID ,LastName ,FirstName ,Address ,City)
```

VALUES (4, 'Eric', 'Skag', 'china', 'shanghai');

SQL AUTO INCREMENT

```
CREATE TABLE Persons (
Personid int NOT NULL AUTO_INCREMENT,
    LastName varchar(255) NOT NULL,
    FirstName varchar(255),
    Age int,
    PRIMARY KEY (Personid)
);
```

INSERT INTO persons2 (LastName ,FirstName ,age)

VALUES ('Erichsen', 'Skagen', 34);

INSERT INTO persons2 (LastName ,FirstName ,age)

VALUES ('Eric', 'Skag', 32);

SQL TRUNCATE

The TRUNCATE TABLE statement is used to delete the data inside a table, but not the table itself.

TRUNCATE TABLE persons2;

SQL DROP TABLE

DROP TABLE persons2;

SQL SELECT

```
SELECT * FROM persons;
```

```
SELECT lastname FROM `persons` ;
```

lastname
Eric
Erichsen
Eric

UPDATE Table

use testdb;

UPDATE persons

```
SET address = 'mumbai'

WHERE PersonID = 1;
```

SQL AND, OR and NOT

```
SELECT * FROM persons

WHERE City='mum' OR City='shanghai';
```

```
SELECT * FROM persons

WHERE NOT address='china';
```

PersonID	LastName	FirstName	Address	City
1	Erichsen	Skagen	mumbai	Norway
2	Eric	Skag	lko	Norway
3	Erichsen	Skagen	india	mum

```
UPDATE persons

SET Address = 'norway'

WHERE City ='norway';
```

PersonID	LastName	FirstName	Address	City
1	Erichsen	Skagen	norway	Norway
2	Eric	Skag	norway	Norway
3	Erichsen	Skagen	india	mum
4	Eric	Skag	china	shanghai

SQL DELETE

DELETE FROM persons WHERE personid=1;

PersonID	LastName	FirstName	Address	City
2	Eric	Skag	norway	Norway
3	Erichsen	Skagen	india	mum
4	Eric	Skag	china	shanghai

SQL ORDER BY

SELECT persons.lastname, persons.firstname, persons.address FROM `persons`

order by persons.address ;

lastname	firstname	address_1
Eric	Skag	china
Erichsen	Skagen	india
Eric	Skag	norway

SELECT persons.lastname, persons.firstname, persons.address FROM `persons`

order by persons.address desc ;

lastname	firstname	address_1
Eric	Skag	norway
Erichsen	Skagen	india
Eric	Skag	china

INSERT INTO persons (PersonID ,LastName ,FirstName ,Address ,City)

VALUES (5, 'geogre', 'ramsay', 'india', 'mum');

INSERT INTO persons (PersonID ,LastName ,FirstName ,Address ,City)

VALUES (1, 'tom', 'ramsay', 'china', 'shanghai');

PersonID	LastName	FirstName	Address	City
2	Eric	Skag	norway	Norway
3	Erichsen	Skagen	india	mum
4	Eric	Skag	china	shanghai
5	geogre	ramsay	india	mum

PersonID	LastName	FirstName	Address	City
1	tom	ramsay	china	shanghai

SELECT * FROM `persons`

order by persons.address , personid ;

PersonID	LastName	FirstName	Address	City
1	tom	ramsay	china	shanghai
4	Eric	Skag	china	shanghai
3	Erichsen	Skagen	india	mum
5	geogre	ramsay	india	mum
2	Eric	Skag	norway	Norway

limit

SELECT * FROM `persons`

limit 2 ;

PersonID	LastName	FirstName	Address	City
2	Eric	Skag	norway	Norway
3	Erichsen	Skagen	india	mum

use testdb;

SELECT * FROM `persons`

order by personid

limit 2 ;

PersonID	LastName	FirstName	Address	City
1	tom	ramsay	china	shanghai
2	Eric	Skag	norway	Norway

Different Operator

--	Comment
<	is less than
>	is greater than
=	equal to
>=	is greater than equal to
<=	
<>	not equal to
And	
Or	

use testdb;

SELECT * FROM persons -- WHERE City='mum'; //comment

PersonID	LastName	FirstName	Address	City
2	Eric	Skag	norway	Norway
3	Erichsen	Skagen	india	mum
4	Eric	Skag	china	shanghai
5	geogre	ramsay	india	mum
1	tom	ramsay	china	shanghai

In

use testdb;

SELECT * FROM persons

WHERE Address IN ('india', 'china', 'UK');

PersonID	LastName	FirstName	Address	City
3	Erichsen	Skagen	india	mum
4	Eric	Skag	china	shanghai
5	geogre	ramsay	india	mum
1	tom	ramsay	china	shanghai

SELECT * FROM persons

WHERE Address not IN ('india', 'china', 'UK');

PersonID	LastName	FirstName	Address	City
2	Eric	Skag	norway	Norway

SELECT * FROM persons

WHERE Address IN ('india', 'china', 'UK') and personid>2;

PersonID	LastName	FirstName	Address	City
3	Erichsen	Skagen	india	mum

PersonID	LastName	FirstName	Address	City
4	Eric	Skag	china	shanghai
5	geogre	ramsay	india	mum