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# HOW TO – SQL [MYSQL]

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## 1. How to create table

```
CREATE TABLE customers (  
  id int(11),  
  first_name varchar(64),  
  last_name varchar(64),  
  www varchar(1024)  
);
```

## 2. How to create table with AUTO\_INCREMENT PRIMARY KEY

```
CREATE TABLE customers (  
  id int(11) AUTO_INCREMENT,  
  first_name varchar(64),  
  last_name varchar(64),  
  www varchar(1024),  
  PRIMARY KEY (id)  
);
```

## 3. How to create table with NOT NULL columns

```
CREATE TABLE customers (  
  id int(11) NOT NULL AUTO_INCREMENT,  
  first_name varchar(64) NOT NULL,  
  last_name varchar(64) NOT NULL,  
  www varchar(1024),  
  PRIMARY KEY (id)  
);
```

## 4. How to create table with DEFAULT value

```
CREATE TABLE customers (  
  id int(11) NOT NULL AUTO_INCREMENT,  
  first_name varchar(64) NOT NULL,  
  last_name varchar(64) NOT NULL,  
  www varchar(1024),  
  status CHAR(1) DEFAULT '1' NOT NULL,  
  PRIMARY KEY (id)  
);
```

## 5. How to add column

```
ALTER TABLE customers ADD country varchar(64);
```

## 6. How to add NOT NULL column

```
ALTER TABLE customers ADD city varchar(64) NOT NULL;
```

## 7. How to add column with DEFAULT value

```
ALTER TABLE customers ADD segment varchar(64) DEFAULT 'STANDARD'  
NOT NULL;
```

## 8. How to modify column

```
ALTER TABLE customers MODIFY segment varchar(64) DEFAULT 'VIP';
```

## 9. How to drop column

```
ALTER TABLE customers DROP COLUMN segment;
```

or

```
ALTER TABLE customers DROP segment;
```

## 10. How to drop table

```
DROP TABLE customers;
```

## 11. How to create index

```
CREATE INDEX idx_first_name ON customers (first_name);
```

## 12. How to create UNIQUE index

```
CREATE UNIQUE INDEX uidx_last_name ON customers (last_name);
```

## 13. How to remove index

```
DROP INDEX uidx_last_name ON customers;
```

## 14. How to insert data

```
INSERT INTO customers (  
    first_name,  
    last_name,  
    www,  
    status  
) VALUES (  
    'John',  
    'Lemon',  
    'www.address.com',  
    'A'  
);
```

or

```
INSERT INTO customers  
SET  
    first_name = 'John',  
    last_name = 'Lemon',  
    www = 'www.address.com',  
    status = 'A'  
;
```

## 15. How to update data

```
UPDATE customers SET first_name = 'Paul' WHERE first_name = 'John';
```

## 16. How to delete data

```
DELETE FROM customers WHERE first_name = 'John';
```

17. How to select data

```
SELECT *  
FROM customers  
WHERE first_name = 'Paul';
```