**SQL**

**Create**

CREATE TABLE [database\_name.][schema\_name.](

purchase\_number INT NOT NULL PRIMARY KEY auto\_increment,

date\_of\_purchase DATE NOT NULL,

customer\_id INT,

item\_code VARCHAR(10) NOT NULL

);

**Select**

USE Sales

SELECT \* FROM customers;

SELECT \* FROM sales.customers;

**Drop**

DROP TABLE [schemaName];

**Indexes**

CREATE TABLE sales(

purchase\_number INT auto\_increment,

date\_of\_purchase DATE NOT NULL,

customer\_id INT,

item\_code VARCHAR(10) NOT NULL,

PRIMARY KEY (purchase\_number),

foreign key (customer\_id) REFERENCES customers(customer\_id) ON DELETE CASCADE

);

**Add Indexes to a database that already exist**

ALTER TABLE sales

ADD foreign key (customer\_id) REFERENCES customers(customer\_id) ON DELETE CASCADE

ALTER TABLE TABLE\_NAME

Drop Foreign key foreign\_key\_name;

**Drop Index**

ALTER TABLE table\_name

DROP INDEX unique\_key\_field;

**Modify a Table**

ALTER TABLE TABLE\_NAME

MODIFY …;

CREATE TABLE `companies` (

`company\_id` int NOT NULL,

`company\_name` varchar(255) DEFAULT NULL,

`headquarters\_phone\_number` int DEFAULT NULL,

PRIMARY KEY (`company\_id`)

)

CREATE TABLE `customers` (

`customer\_id` int NOT NULL,

`first\_name` varchar(255) DEFAULT NULL,

`last\_name` varchar(255) DEFAULT NULL,

`email\_address` varchar(255) DEFAULT NULL,

`number\_of\_complaints` int DEFAULT NULL,

PRIMARY KEY (`customer\_id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci

CREATE TABLE `items` (

`item\_code` int NOT NULL,

`item` varchar(255) DEFAULT NULL,

`unit\_price` decimal(10,2) DEFAULT NULL,

`company\_id` varchar(255) DEFAULT NULL,

PRIMARY KEY (`item\_code`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci

CREATE TABLE `sales` (

`purchase\_number` int NOT NULL AUTO\_INCREMENT,

`date\_of\_purchase` date NOT NULL,

`customer\_id` int DEFAULT NULL,

`item\_code` varchar(10) DEFAULT NULL,

PRIMARY KEY (`purchase\_number`),

KEY `customer\_id` (`customer\_id`),

CONSTRAINT `sales\_ibfk\_1` FOREIGN KEY (`customer\_id`) REFERENCES `customers` (`customer\_id`) ON DELETE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci