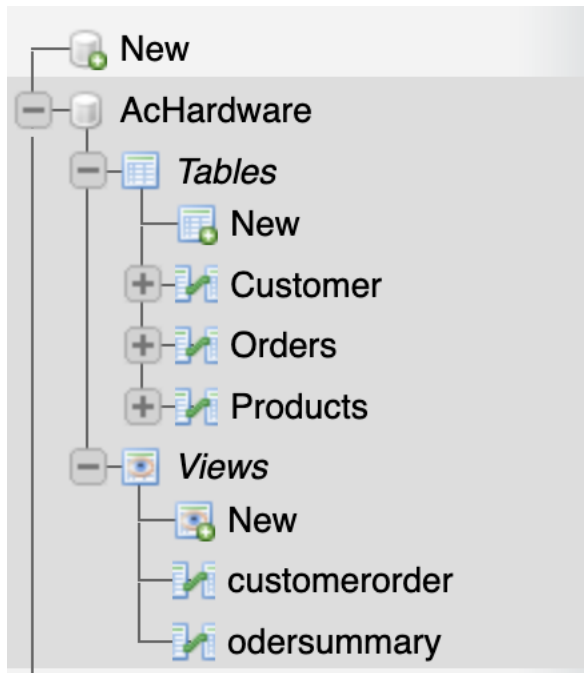


Anand Chaudhary

Final Project: Database Implementation and Java Program

## SQL Statements

### 1. Structure of the database



### 2. Creating AcHardware database














































→ `CREATE DATABASE AcHardware;`

### 3. Creating Customer table

→ Create table Customer  
(  
    customerID int,  
    fName varchar(30),  
    lName varchar(30),  
    phone varchar(10),  
    email varchar(40),  
    address varchar(60),  
    primary key(customerID)  
)

#### 4. Retrieving Customer table

→ Select \* from Customer;

		customerID	fName	lName	phone	email	address
<input type="checkbox"/>	 Edit	 Copy	 Delete	1	Margette	Natt	6218468577 mnatt0@cnet.com 0 Buena Vista Trail
<input type="checkbox"/>	 Edit	 Copy	 Delete	2	Gradey	Haylock	2298442306 ghaylock1@elegantthemes.com 560 Redwing Way
<input type="checkbox"/>	 Edit	 Copy	 Delete	3	Maurits	Lazenby	5081926681 mlazenby2@parallels.com 846 Utah Street
<input type="checkbox"/>	 Edit	 Copy	 Delete	4	Kiah	Arnaldi	2119564871 karnaldi3@arstechnica.com 077 Merrick Terrace
<input type="checkbox"/>	 Edit	 Copy	 Delete	5	Holly	Bilney	4789516370 hbilney4@timesonline.co.uk 10024 Anderson Junction
<input type="checkbox"/>	 Edit	 Copy	 Delete	6	Gail	Figgess	8137435709 gfiggess5@php.net 38081 Hansons Plaza
<input type="checkbox"/>	 Edit	 Copy	 Delete	7	Tami	McTiernan	6554792744 tmctiernan6@google.pl 85654 Bayside Trail
<input type="checkbox"/>	 Edit	 Copy	 Delete	8	Stanleigh	Carthy	7468454008 scarthy7@dot.gov 80212 Sutteridge Court
<input type="checkbox"/>	 Edit	 Copy	 Delete	9	Nicolai	Liddyard	8794211308 nliddyard8@newsvine.com 9336 Cody Lane
<input type="checkbox"/>	 Edit	 Copy	 Delete	10	Durante	Kopf	5601338766 dkopf9@mozilla.org 8 Esch Avenue
<input type="checkbox"/>	 Edit	 Copy	 Delete	11	Elissa	Kiddie	3214068754 ekiddiea@hexun.com 96 Jay Trail
<input type="checkbox"/>	 Edit	 Copy	 Delete	12	Leslie	Boothroyd	1872998246 lboothroydb@hexun.com 1 Cordelia Avenue
<input type="checkbox"/>	 Edit	 Copy	 Delete	13	Annaliese	de la Valette Parisot	5734595006 adelavaletteparisotc@msu.edu 37296 Columbus Lane
<input type="checkbox"/>	 Edit	 Copy	 Delete	14	Sanders	Achromov	2673492272 sachromovd@archive.org 416 Fallview Trail
<input type="checkbox"/>	 Edit	 Copy	 Delete	15	Wyatt	Kliment	7023726793 wklimente@elegantthemes.com 410 Hollow Ridge Alley

#### 5. Creating Orders table

→ CREATE TABLE Orders  
(  
orderID int,  
customerID int,  
orderTotal decimal(10,2),  
orderStatus varchar(12),  
purchaseDate timestamp,  
Primary key(orderID),  
Foreign key(customerID) references Customer(customerID)  
);

#### 6. Inserting single values into Orders table











































→ insert into Orders(orderID, customerID, orderTotal,orderStatus)VALUES  
(1, 1, 9.99,'Shipped');

## 7. Inserting multiple values into Orders table

→ insert into Orders(orderID, customerID, orderTotal,orderStatus)VALUES  
(1,1,33.99, 'Delayed'),  
(2, 2,50, 'Processing'),  
(3,3,10.99, 'Processing'),  
(4, 4,99.01, 'Shipped'),  
(5, 5,22.5, 'Shipped'),  
(6, 6,45.5, 'Shipped'),  
(7, 7,30.25, 'Delayed'),  
(8, 8,30.75, 'Processing'),  
(9, 9, 34.99, 'Delayed'),  
(10, 10, 6.2, 'Shipped'),  
(11, 11, 50.3, 'Shipped'),  
(12, 12, 4.8, 'Shipped');

## 8. Retrieving Orders table

→ Select \* from Orders ORDER BY orderID ASC

← T →				purchaseDate	orderID	customerID	orderTotal	orderStatus
<input type="checkbox"/>	 Edit	 Copy	 Delete	2022-05-04 15:15:38	1	1	33.99	Delayed
<input type="checkbox"/>	 Edit	 Copy	 Delete	2022-05-04 15:15:38	2	2	50.00	Processing
<input type="checkbox"/>	 Edit	 Copy	 Delete	2022-05-04 15:16:07	3	3	10.99	Processing
<input type="checkbox"/>	 Edit	 Copy	 Delete	2022-05-04 15:16:07	4	4	99.01	Shipped
<input type="checkbox"/>	 Edit	 Copy	 Delete	2022-05-04 15:16:07	5	5	22.50	Shipped
<input type="checkbox"/>	 Edit	 Copy	 Delete	2022-05-04 15:16:07	6	6	45.50	Shipped
<input type="checkbox"/>	 Edit	 Copy	 Delete	2022-05-04 15:16:07	7	7	30.25	Delayed
<input type="checkbox"/>	 Edit	 Copy	 Delete	2022-05-04 15:16:35	8	8	30.75	Processing
<input type="checkbox"/>	 Edit	 Copy	 Delete	2022-05-04 15:16:35	9	9	34.99	Delayed
<input type="checkbox"/>	 Edit	 Copy	 Delete	2022-05-04 15:16:35	10	10	6.20	Shipped
<input type="checkbox"/>	 Edit	 Copy	 Delete	2022-05-04 15:16:35	11	11	50.30	Shipped
<input type="checkbox"/>	 Edit	 Copy	 Delete	2022-05-04 15:16:35	12	12	4.80	Shipped
<input type="checkbox"/>	 Edit	 Copy	 Delete	2022-05-04 15:32:02	13	13	23.99	Cancelled
<input type="checkbox"/>	 Edit	 Copy	 Delete	2022-05-04 15:41:33	14	14	7.99	Cancelled

## 9. Creating Products table

```
→ CREATE TABLE Products
(
    productID int,
    orderID int,
    pCategory varchar(60),
    pName varchar(60),
    price decimal(10,2),
    pDescription varchar(90),
    pQty int,
    Primary key(productID),
    Foreign key(productID) references Orders(orderID)
);
```

## 10. Inserting a single value into Product table

```
→ (1,1,'Cell Phones','Motorolla Flip Smart Phone',799,'foldable smartphone with
120 refresh rate',1);
```





































## 11. Inserting multiple values into the Products table

```
→ insert into Products values
(2,2,'Displays','LG Monitor',200.2,'Gaming monitor 32 inch 4k',1),
(3,3,'Camera','Nikon D 5300',899.5,'Dslr Camera',2),
(4,4,'TV','Samsung UHD 4k',1400,'75 inch 4k tv',1),
(5,5,'Games','Plays station',590,'Relesed on 2021',2),
(6,6,'Games','Xbox 1',560, 'Released on 2020', 3),
(7,7,'Accessories', 'Dlx Qi Charger',17.99,'Wireless Qi charger',4),
(8,8,'Storage','WD 1 TB ssd',300.55, 'Portable SSD',2),
(9,9,'Printers','Brothers 3589',350.5, 'Color Printer',1),
(10,10,'PC','Dell Inspiration 5000',675.85, 'Gaming PC',1),
(11,11,'Laptops','HP Omen',1450,'Gaming Laptop',3),
(12,12,'Apple','Air Pods Pro',250,'Wireless headphones',12);
```

## 12. Retrieving all the data from Products table

→ Select \* from Products;

+ Options

			productID	orderID	pCategory	pName	price	pDescription	pQty	
<input type="checkbox"/>	 Edit	 Copy	 Delete	1	1	Cell Phones	Motorolla Flip Smart phone	799.00	foldable smartphone with 120 refresh rate	1
<input type="checkbox"/>	 Edit	 Copy	 Delete	2	2	Displays	LG Monitor	200.20	Gaming monitor 32 inch 4k	1
<input type="checkbox"/>	 Edit	 Copy	 Delete	3	3	Camera	Nikon D 5300	899.50	Dslr Camera	2
<input type="checkbox"/>	 Edit	 Copy	 Delete	4	4	TV	Samsung UHD 4k	1400.00	75 inch 4k tv	1
<input type="checkbox"/>	 Edit	 Copy	 Delete	5	5	Games	Plays station	590.00	Relesed on 2021	2
<input type="checkbox"/>	 Edit	 Copy	 Delete	6	6	Games	Xbox 1	560.00	Released on 2020	3
<input type="checkbox"/>	 Edit	 Copy	 Delete	7	7	Accessories	Dlx Qi Charger	17.99	Wireless Qi charger	4
<input type="checkbox"/>	 Edit	 Copy	 Delete	8	8	Storage	WD 1 TB ssd	300.55	Portable SSD	2
<input type="checkbox"/>	 Edit	 Copy	 Delete	9	9	Printers	Brothers 3589	350.50	Color Printer	1
<input type="checkbox"/>	 Edit	 Copy	 Delete	10	10	PC	Dell Inspiration 5000	675.85	Gaming PC	1
<input type="checkbox"/>	 Edit	 Copy	 Delete	11	11	Laptops	HP Omen	1450.00	Gaming Laptop	3
<input type="checkbox"/>	 Edit	 Copy	 Delete	12	12	Apple	Air Pods Pro	250.00	Wireless headphones	12

## 13. Creating customerorder VIEW using INNER JOIN

→ Create view customerorder(fName, lName ,orderTotal, address, purchaseDate, orderStatus)  
AS select c.fname, c.lname, o.orderTotal, c.address, o.purchaseDate, o.orderStatus  
from Customer c inner join Orders o  
ON c.customerID = o.orderID;

## 14. Retrieving customerorder VIEW table

→ `select * from customerorder;`

+ Options





































				fName	lName	orderTotal	address	purchaseDate	orderStatus
<input type="checkbox"/>				Margette	Natt	33.99	0 Buena Vista Trail	2022-05-04 15:15:38	Delayed
<input type="checkbox"/>				Gradey	Haylock	50.00	560 Redwing Way	2022-05-04 15:15:38	Processing
<input type="checkbox"/>				Maurits	Lazenby	10.99	846 Utah Street	2022-05-04 15:16:07	Processing
<input type="checkbox"/>				Kiah	Arnaldi	99.01	077 Merrick Terrace	2022-05-04 15:16:07	Shipped
<input type="checkbox"/>				Holly	Bilney	22.50	10024 Anderson Junction	2022-05-04 15:16:07	Shipped
<input type="checkbox"/>				Gail	Figgess	45.50	38081 Hansons Plaza	2022-05-04 15:16:07	Shipped
<input type="checkbox"/>				Tami	McTiernan	30.25	85654 Bayside Trail	2022-05-04 15:16:07	Delayed
<input type="checkbox"/>				Stanleigh	Carthy	30.75	80212 Sutteridge Court	2022-05-04 15:16:35	Processing
<input type="checkbox"/>				Nicolai	Liddyard	34.99	9336 Cody Lane	2022-05-04 15:16:35	Delayed
<input type="checkbox"/>				Durante	Kopf	6.20	8 Esch Avenue	2022-05-04 15:16:35	Shipped
<input type="checkbox"/>				Elissa	Kiddie	50.30	96 Jay Trail	2022-05-04 15:16:35	Shipped
<input type="checkbox"/>				Leslie	Boothroyd	4.80	1 Cordelia Avenue	2022-05-04 15:16:35	Shipped
<input type="checkbox"/>				Annaliese	de la Valette Parisot	23.99	37296 Columbus Lane	2022-05-04 15:32:02	Cancelled
<input type="checkbox"/>				Sanders	Achromov	7.99	416 Fallview Trail	2022-05-04 15:41:33	Cancelled

## 15. Creating ordersummary VIEW using INNER JOIN

→ Create view ordersummary(fName, lName, pName, price, pQty, address, purchaseDate, orderStatus)  
AS select c.fname, c.lname, p.pName, p.price, p.pQty, c.address, o.purchaseDate, o.orderStatus  
from Customer c inner join Orders o  
ON c.customerID = o.orderID  
inner join Products P  
ON O.orderID = P.productID;

## 16. Retrieving ordersummary VIEW Table

→ Select \* from ordersummary;

+ Options											
← T →											
				fName	lName	pName	price	pQty	address	purchaseDate	orderStatus
<input type="checkbox"/>				Margette	Natt	Motorolla Flip Smart phone	799.00	1	0 Buena Vista Trail	2022-05-04 15:15:38	Delayed
<input type="checkbox"/>				Gradey	Haylock	LG Monitor	200.20	1	560 Redwing Way	2022-05-04 15:15:38	Processing
<input type="checkbox"/>				Maurits	Lazenby	Nikon D 5300	899.50	2	846 Utah Street	2022-05-04 15:16:07	Processing
<input type="checkbox"/>				Kiah	Arnaldi	Samsung UHD 4k	1400.00	1	077 Merrick Terrace	2022-05-04 15:16:07	Shipped
<input type="checkbox"/>				Holly	Bilney	Plays station	590.00	2	10024 Anderson Junction	2022-05-04 15:16:07	Shipped
<input type="checkbox"/>				Gail	Figgess	Xbox 1	560.00	3	38081 Hansons Plaza	2022-05-04 15:16:07	Shipped
<input type="checkbox"/>				Tami	McTiernan	Dlx Qi Charger	17.99	4	85654 Bayside Trail	2022-05-04 15:16:07	Delayed
<input type="checkbox"/>				Stanleigh	Carthy	WD 1 TB ssd	300.55	2	80212 Sutteridge Court	2022-05-04 15:16:35	Processing
<input type="checkbox"/>				Nicolai	Liddyard	Brothers 3589	350.50	1	9336 Cody Lane	2022-05-04 15:16:35	Delayed
<input type="checkbox"/>				Durante	Kopf	Dell Inspiration 5000	675.85	1	8 Esch Avenue	2022-05-04 15:16:35	Shipped
<input type="checkbox"/>				Elissa	Kiddie	HP Omen	1450.00	3	96 Jay Trail	2022-05-04 15:16:35	Shipped
<input type="checkbox"/>				Leslie	Boothroyd	Air Pods Pro	250.00	12	1 Cordelia Avenue	2022-05-04 15:16:35	Shipped