APP activity 3: postgresql

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Part 1) Creating tables (should have four SQL query and four table views)

1. userShippingAddress Table

```
CREATE TABLE userShippingAddress(
   id SERIAL PRIMARY KEY,
   address VARCHAR(200),
   state VARCHAR(20),
   zip_code char(5)
);
```

	address character varying (200)		zip_code character
[i iv] iiitegei	character varying (200)	character varying (20)	Cilalactei

2. UserOrder Table

```
CREATE TABLE userOrder(
   id serial PRIMARY KEY,
   quantity INT NOT NULL,
   item VARCHAR(255) NOT NULL,
   totalPrice INT NOT NULL
);
```



3. userInfo_Table

4. userLogin Table

```
CREATE TABLE userLogin (
    id SERIAL PRIMARY KEY,
    username VARCHAR(128) NOT NULL UNIQUE,
    password VARCHAR(128) NOT NULL,
    userShippingAddress_id INT,
    userOrder_id INT,
    userInfo_id INT,
    FOREIGN KEY (userInfo_id) REFERENCES userInfo(id),
    FOREIGN KEY (userShippingAddress_id) REFERENCES userShippingAddress(id),
    FOREIGN KEY (userOrder_id) REFERENCES userOrder(id)
);
```

id [PK] integer	username character varying (128)		usershippingaddress_id integer	userorder_id ,	userinfo_id	
[i it] integer	ondidotor varying (120)	character varying (120)	integer	integer	integer	

Part 2) Entering data in each table

1. userShippingAddress Table

```
INSERT INTO userShippingAddress
    (id, address, state, zip_code)
VALUES
    (1, '800 follow st.', 'NY', '10001'),
    (2, '320 water st.', 'CT', '12005'),
    (3, '9 Gotham st.', 'GC', '15200');
```

	id [PK] integer	address character varying (200)	state character varying (20)	zip_code character
1	1	800 follow st.	NY	10001
2	2	320 water st.	СТ	12005
3	3	9 Gotham st.	GC	15200

2. UserOrder Table

```
INSERT INTO UserOrder
    (id, quantity, item, totalprice)
VALUES
    (1, 2, 'Wooden Boat', 120),
    (2, 1, 'Rabbit', 25),
    (3, 5, 'Cars', 180),
    (4, 3, 'Bubbles', 36);
```

	id [PK] integer	quantity integer	item character varying (255)	totalprice integer
1	1	2	Wooden Boat	120
2	2	1	Rabbit	25
3	3	5	Cars	180
4	4	3	Bubbles	36

3. userInfo_ Table

INSERT INTO userInfo

(id, last_name, first_name, userShippingAddress_id, userOrder_id)
VALUES

```
(1, 'Pan', 'Peter', 1, 1),
(2, 'Key', 'Alice', 2, 2),
(3, 'Wayne', 'Bruce', 3, 3),
(4, 'Li', 'Xiaojin', NULL, 4);
```

	id [PK] integer	last_name character varying (50)	first_name character varying (50)	usershippingaddress_id integer	userorder_id /
1	1	Pan	Peter	1	1
2	2	Key	Alice	2	2
3	3	Wayne	Bruce	3	3
4	4	Li	Xiaojin	[null]	4

4. userLogin Table

INSERT INTO userLogin

 $(\textbf{id}, \ \texttt{username}, \ \textbf{password}, \ \texttt{userShippingAddress_id}, \ \texttt{userOrder_id}, \texttt{userInfo_id}) \\ \textbf{VALUES}$

```
(1, 'Peterpan', 'Peter123', 1, 1,1),
(2, 'Alicekey', 'Key123', 2, 2,2),
(3, 'Batman', 'Guess123', 3, 3,3);
```

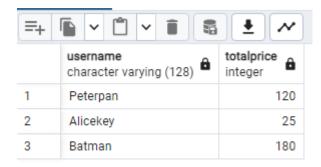
	id [PK] integer	username character varying (128)	password character varying (128)	usershippingaddress_id , integer	userorder_id /	userinfo_id integer
1	1	Peterpan	Peter123	1	1	1
2	2	Alicekey	Key123	2	2	2
3	3	Batman	Guess123	3	3	3

Part 3) print data:

1. username and total price select username, totalprice FROM userLogin

inner join UserOrder

on userLogin.userOrder_id=UserOrder.id



2. last name, state, and order items

select last_name,state,item from userInfo left join UserOrder on userInfo.userOrder_id=UserOrder.id left join userShippingAddress on userInfo.userShippingAddress_id=userShippingAddress.id

	last_name character varying (50)	state character varying (20)	item character varying (255)
1	Pan	NY	Wooden Boat
2	Key	СТ	Rabbit
3	Wayne	GC	Cars
4	Li	[null]	Bubbles

3. first name, address, zip code, quantity, items, and total price

select first_name,address,zip_code,quantity,item,totalprice from userInfo left join UserOrder on userInfo.userOrder_id=UserOrder.id left join userShippingAddress on userInfo.userShippingAddress_id=userShippingAddress.id

	first_name character varying (50)	address character varying (200)	zip_code character 6	quantity integer	item character varying (255)	totalprice integer
1	Peter	800 follow st.	10001	2	Wooden Boat	120
2	Alice	320 water st.	12005	1	Rabbit	25
3	Bruce	9 Gotham st.	15200	5	Cars	180
4	Xiaojin	[null]	[null]	3	Bubbles	36