APP Activity 3: PostgreSQL
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Part 1) Creating tables (should have four SQL query and four table views)
    • userShippingAddress

```
1   CREATE TABLE userShippingAddress(
2       id serial primary key,
3       address varchar(128),
4       state varchar(128),
5       zipcode INTEGER
6   )
```

Data Output   Explain   Messages   Notifications

id [PK] integer	address character varying (128)	state character varying (128)	zipcode integer

    • userOrder

```
8    CREATE TABLE userOrder(
9        id serial primary key,
10       quantity INTEGER,
11       item VARCHAR(128),
12       totalPrice NUMERIC(3,0)
13   )
```

Data Output   Explain   Messages   Notifications

id [PK] integer	quantity integer	item character varying (128)	totalprice numeric (3)

• userInfo

```
15   CREATE TABLE userInfo(
16       id serial primary key,
17       last_name varchar(30),
18       first_name varchar(30),
19       userShippingAddress_id INTEGER REFERENCES userShippingAddress(id) on DELETE CASCADE,
20       userOrder_id INTEGER REFERENCES userOrder(id) on DELETE CASCADE
21   )
```

Data Output Explain Messages Notifications

id [PK] integer	last_name character varying (30)	first_name character varying (30)	usershippingaddress_id integer	userorder_id integer

• userLogin

```
23   CREATE TABLE userLogin(
24       id serial primary key,
25       username varchar(30),
26       password varchar(128),
27       userInfo_id INTEGER REFERENCES userInfo(id) on DELETE CASCADE,
28       userShippingAddress_id INTEGER REFERENCES userShippingAddress(id) on DELETE CASCADE,
29       userOrder_id INTEGER REFERENCES userOrder(id) on DELETE CASCADE
30   )
```

Data Output Explain Messages Notifications

id [PK] integer	username character varying (30)	password character varying (128)	userinfo_id integer	usershippingaddress_id integer	userorder_id integer

Part 2) Entering data in each table (should have four SQL queries and four table views)
  • userShippingAddress

```
33   INSERT INTO userShippingAddress(id,address,state,zipcode)
34   VALUES
35       (1,'800 follow st.','NY',10001),
36       (2,'320 water st.','CT',12005),
37       (3,'9 Gotham st.','GC',15200)
```

id [PK] integer	address character varying (128)	state character varying (128)	zipcode integer
1	1	800 follow st.	NY	10001
2	2	320 water st.	CT	12005
3	3	9 Gotham st.	GC	15200

• userOrder

```
39   INSERT INTO userOrder(id,quantity,item,totalPrice)
40   VALUES
41       (1,2,'Wooden Boat',120),
42       (2,1,'Rabbit',25),
43       (3,5,'Cars',180),
44       (4,3,'Bubbles',36);
```

Data Output Explain Messages Notifications

id [PK] integer	quantity integer	item character varying (128)	totalprice numeric (3)
1	1	2	Wooden Boat	120
2	2	1	Rabbit	25
3	3	5	Cars	180
4	4	3	Bubbles	36

• userInfo

```
46  INSERT INTO userInfo(id,last_name,first_name,userShippingAddress_id,userOrder_id)
47  VALUES
48      (1,'Pan','Peter',1,1),
49      (2,'Key','Alice',2,2),
50      (3,'Wayne','Bruce',3,3),
51      (4,'Zhao','Weifeng',NULL,4);
```

Data Output   Explain   Messages   Notifications

	id [PK] integer	last_name character varying (30)	first_name character varying (30)	usershippingaddress_id integer	userorder_id integer
1	1	Pan	Peter	1	1
2	2	Key	Alice	2	2
3	3	Wayne	Bruce	3	3
4	4	Zhao	Weifeng	[null]	4

• userLogin

```
53  INSERT INTO userLogin(id,username,password,userInfo_id,userShippingAddress_id,userOrder_id)
54  VALUES
55      (1,'Peterpan','Peter123',1,1,1),
56      (2,'Alicekey','Key123',2,2,2),
57      (3,'Batman','Guess123',3,3,3),
58      (4,NULL,NULL,NULL,NULL,4);
```

Data Output   Explain   Messages   Notifications

	id [PK] integer	username character varying (30)	password character varying (128)	userinfo_id integer	usershippingaddress_id integer	userorder_id integer
1	1	Peterpan	Peter123	1	1	1
2	2	Alicekey	Key123	2	2	2
3	3	Batman	Guess123	3	3	3
4	4	[null]	[null]	[null]	[null]	4

Part 3) Print data: (should have three SQL queries and three table views)

• username and total price

```
61   SELECT userLogin.username, userOrder.totalPrice
62   FROM userLogin
63   JOIN userOrder ON userLogin.id = userOrder.id;
```

Data Output   Explain   Messages   Notifications

	username character varying (30)	totalprice numeric (3)
1	Peterpan	120
2	Alicekey	25
3	Batman	180
4	[null]	36

• last name, state, and order items

```
65   SELECT userInfo.last_name, userShippingAddress.state, userOrder.item
66   FROM userInfo
67   JOIN userShippingAddress on userInfo.id = userShippingAddress.id
68   JOIN userOrder on userOrder.id = userShippingAddress.id
69
```

Data Output   Explain   Messages   Notifications

	last_name character varying (30)	state character varying (128)	item character varying (128)
1	Pan	NY	Wooden Boat
2	Key	CT	Rabbit
3	Wayne	GC	Cars

• first name, address, zip code, quantity, items, and total price

```
70   SELECT userInfo.first_name, userShippingAddress.address,userShippingAddress.zipcode,
71        userOrder.quantity,userOrder.item, userOrder.totalPrice
72   FROM userInfo
73   JOIN userShippingAddress on userShippingAddress.id = userInfo.id
74   JOIN userOrder on userOrder.id = userShippingAddress.id
```

Data Output   Explain   Messages   Notifications

	first_name character varying (30)	address character varying (128)	zipcode integer	quantity integer	item character varying (128)	totalprice numeric (3)
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