

## Questions and Answers

### Case Study – Introduction to Relational Database and SQL

#### Basic Queries INSERT, DELETE & JOINT

1: Look up a club member with first name John, last name Doe and phone number 9998887777

```
INSERT INTO club_member  
SET first_name = "John",  
Last_name = "Doe",  
phone_number = "9998887777"
```

Results:

member_id	first_name	last_name	middle_name	city	state_abbreviation	phone_num
24	Maria	McNeeland		Boston	MA	5085551212
25	Patricia	Jones	Carla	Boston	MA	5085551111
26	Nancy	Jones	Wai Jiang	Oakland	CA	5105553333
27	Jason	McNeeland		Dallas	TX	4695551212
28	Arianna	Kwan		Sausalito	CA	4155551111
32	Harrison	Kong	NULL			3101234567
33	John	Doe	NULL			9998887777

2: Delete a club member by row in the table if the phone number is "9998887777."

```
DELETE FROM club_member  
WHERE phone_number = "9998887777"
```

Results:

first_name	last_name	middle_name	city	state_abbreviation	phone_number	email
Kamela	Vickson-Hsiang		West Palm Be...	FL	5615551212	kvh@hometutoringservice.com
Maria	McNeeland		Boston	MA	5085551212	mariamcneeland@firstdraft.com
Patricia	Jones	Carla	Boston	MA	5085551111	pjones@royalballet.com
Nancy	Jones	Wai Jiang	Oakland	CA	5105553333	nancyjones@freelandcourt.gov
Jason	McNeeland		Dallas	TX	4695551212	jasonmcneeland@mundodevaquer...
Arianna	Kwan		Sausalito	CA	4155551111	arianna@bestrealtors.com
NULL	NULL	NULL	NULL	NULL	NULL	NULL

### 3: Joining club member and invoice.

```
SELECT club_member.member_id, first_name,  
last_name, description, amount, due_date  
FROM club_member, invoice  
WHERE club_member.member_id =  
invoice.member_id
```

#### Results:

member_id	first_name	last_name	description	amount	due_date
1	Mary	Brightman	Banquet hall rental	2610.59	2020-03-31
1	Mary	Brightman	Catering service	1275.25	2020-03-15
1	Mary	Brightman	Valet parking service	800.15	2020-03-31
23	Kamela	Vickson-Hsiang	Conference room rental	1300.65	2020-04-15
23	Kamela	Vickson-Hsiang	Campaign presentation design	855.75	2020-03-25
9	Arusha	Balakrishnan	Annual membership fee	2499.99	2020-06-30
9	Arusha	Balakrishnan	Airport VIP program - SFO	1677.25	2020-08-31
9	Arusha	Balakrishnan	Roof top access fee	895.99	2020-10-31
9	Arusha	Balakrishnan	Coat check add-on	600.15	2021-01-31

4: Create an SQL statement to includes columns of first\_name, middle\_name, last\_name, professional\_title, tier. description. The columns will come from tables club\_member and tier. The statement is linking the tier\_code column of the table club\_member to the code column of the table tier.

```
SELECT first_name, middle_name, last_name,  
professional_title, tier.description  
FROM club_member, tier  
WHERE club_member.tier_code = tier.code  
ORDER BY last_name
```

**Results:**

first_name	middle_name	last_name	professional_title	description
Arusha		Balakrishnan	Astrophysicist	Titanium
Nancy	Daniella	Bleu	Kindergarten Teacher	Platinum
Mary	J	Brightman	Pediatrician	Platinum
Theodore	Joseph	Bristol	Attorney	Platinum
Florina	Mei Ling	Chen	Chief Editor	Platinum
William		Ericsson	Pastry Chef	Diamond
David		Friedman	Voice Coach	Diamond
Deborah	Maria	Garcia Sanchez	City Mayor	Platinum
Michael	William	Jones	Tutor	Diamond
Patricia	Carla	Jones	Musical Director	Diamond
Nancy	Wai Jiang	Jones	Court Interpreter	Platinum
Arianna		Kwan	Artist	Diamond
Pierre	Jean	L'Amour	Piano Instructor	Titanium
Sahid		Madriani	News Reporter	Platinum