

## SAMPLE QUERIES:

-- 1. Fetch all students who live in Calamba City.

```
SELECT * FROM student WHERE city = 'CALAMBA';
```

```
oeces_database=# SELECT * FROM student
oeces_database=# WHERE city = 'CALAMBA';
```

student_id	first_name	middle_initial	last_name	gender	email	birthday	contact_number	barangay	city	section_id
2011-00148-TS-0	CHRISTIAN PATRICK	T	ACOSTA	M	acosta.christianjaso52@gmail.com	2002-12-03	0929 804 3362	SAIMSIM	CALAMBA	4
2021-00461-TS-0	JHENNY		ALERGE	F	alergrejhe52@gmail.com	2002-01-20	0981 742 0561	LA MESA	CALAMBA	5
2021-00462-TS-0	MERJET		ADARAGON	F	meriellee252@gmail.com	2001-03-24	0921 290 3470	PARIAN	CALAMBA	5

(3 rows)

-- 2. Fetch all second year students.

```
SELECT * FROM student s
JOIN section ON s.section_id = section.id;
```

```
oeces_database=# SELECT * FROM student s
oeces_database=# JOIN section ON s.section_id = section.id;
```

student_id	first_name	middle_initial	last_name	gender	email	birthday	contact_number	barangay	city	section_id	id	section_name
2021-00149-TS-0	ALLEN GERALD	B	BALILA	M	allenbalila62@gmail.com	2003-10-13	0997 927 0395	ZONE 1	TALITAY	3	3	2-1
2012-00191-TS-0	JOV PAISIE	B	ADOGO	F	lyejoyce252@gmail.com	2003-02-16	0930 2027 723	SANTIAGO	STD, TOMAS	3	3	2-1
2021-00140-TS-0	MAURENCE	C	ABANA	M	abelmarcmaurence622@gmail.com	2003-11-22	0295 880 8042	MARTINI	TALITAY	3	3	2-1
2021-00043-TS-0	JV	N	AREJA	M	jareabejuels2@gmail.com	2003-00-11	0977 420 9501	STA. MARIA	STD, TOMAS	3	3	2-1
2021-00416-TS-0	JEAN	D	ALCANTARA	F	alcantarajeannanaris2@gmail.com	2002-10-13	0966 277 9290	PABINI	TAMAHAN	4	4	2-1
2011-00148-TS-0	CHRISTIAN PATRICK	T	ACOSTA	M	acosta.christianjaso52@gmail.com	2002-12-03	0929 804 3362	SAIMSIM	CALAMBA	4	4	2-1
2021-00462-TS-0	MERJET		ADARAGON	F	meriellee252@gmail.com	2001-03-24	0921 290 3470	PARIAN	CALAMBA	5	5	4-1
2021-00461-TS-0	JHENNY		ALERGE	F	alergrejhe52@gmail.com	2002-01-20	0981 742 0561	LA MESA	CALAMBA	5	5	4-1

(8 rows)

-- 3. Display student\_id and (contact\_number of their guardian AS in\_case\_of\_emergency\_call).

```
SELECT s.student_id, COALESCE(g.contact_number, 'NO CONTACT') AS incase_of_emergency_call
FROM student s
FULL JOIN student_guardian sg ON sg.student_id = s.student_id
FULL JOIN guardian g ON sg.guardian_id = g.id;
```

```
oeces_database=#
oeces_database=# SELECT s.student_id, COALESCE(g.contact_number, 'NO CONTACT') AS incase_of_emergency_call
oeces_database=# FROM student s
oeces_database=# FULL JOIN student_guardian sg ON sg.student_id = s.student_id
oeces_database=# FULL JOIN guardian g ON sg.guardian_id = g.id;
```

student_id	incase_of_emergency_call
2021-00043-TS-0	0995 203 4405
2011-00140-TS-0	0985 859 8502
2012-00191-TS-0	0909 423 1000
2021-00149-TS-0	0905 340 9830
2021-00416-TS-0	NO CONTACT
2011-00148-TS-0	NO CONTACT
2021-00462-TS-0	NO CONTACT
2021-00461-TS-0	NO CONTACT

(8 rows)

-- 4. Fetch all students without suborganization membership.

```
SELECT s.first_name, s.last_name FROM student s
LEFT JOIN student_suborganization so ON so.student_id = s.student_id
WHERE so.student_id IS NULL;
```

```
oeces_database=# SELECT s.first_name, s.last_name FROM student s
oeces_database=# LEFT JOIN student_suborganization so ON so.student_id = s.student_id
oeces_database=# WHERE so.student_id IS NULL;
```

first_name	last_name
CHRISTIAN PATRICK	ACOSTA
JEAN	ALCANTARA
JHENNY	ALERGE
MERJET	ADARAGON

(4 rows)

```
-- 5. Fetch all students that is a member of more than 1 suborganization.
SELECT s.first_name, s.last_name, COUNT(so.student_id) AS suborg_count
FROM student s
INNER JOIN student_suborganization so ON so.student_id = s.student_id
GROUP BY s.first_name, s.last_name HAVING COUNT(so.student_id) > 1;
```

```
oeces_database=# SELECT s.first_name, s.last_name, COUNT(so.student_id) AS suborg_count
oeces_database=# FROM student s
oeces_database=# INNER JOIN student_suborganization so ON so.student_id = s.student_id
oeces_database=# GROUP BY s.first_name, s.last_name HAVING COUNT(so.student_id) > 1;
 first_name | last_name | suborg_count
-----
 ALLEN GERALD | BALELA | 2
(1 row)
```

```
-- 6. Display each student full name and guardian full name and their relationship.
SELECT
    CONCAT(s.first_name, ' ', s.last_name) AS student,
    CONCAT(g.first_name, g.last_name) AS guardian,
    COALESCE(gt.relationship, 'NO GUARDIAN PROVIDED')
FROM student s
FULL JOIN student_guardian sg
    ON sg.student_id = s.student_id
FULL JOIN guardian g
    ON sg.guardian_id = g.id
FULL JOIN guardian_type gt
    ON sg.guardian_type_id = gt.id
WHERE s.student_id IS NOT NULL;
```

```
oeces_database=# -- 6. Display each student full name and guardian full name and their relationship.
oeces_database=# SELECT
oeces_database=#     CONCAT(s.first_name, ' ', s.last_name) AS student,
oeces_database=#     CONCAT(g.first_name, g.last_name) AS guardian,
oeces_database=#     COALESCE(gt.relationship, 'NO GUARDIAN PROVIDED')
oeces_database=# FROM student s
oeces_database=# FULL JOIN student_guardian sg
oeces_database=#     ON sg.student_id = s.student_id
oeces_database=# FULL JOIN guardian g
oeces_database=#     ON sg.guardian_id = g.id
oeces_database=# FULL JOIN guardian_type gt
oeces_database=#     ON sg.guardian_type_id = gt.id
oeces_database=# WHERE s.student_id IS NOT NULL;
 student | guardian | coalesce
-----
 JV ABEJA | MARYABEJA | MOTHER
 MAURENCE ABAKA | EDNA ABAKA | MOTHER
 JOY MAISIE AGOGO | JOJOAGOGO | MOTHER
 ALLEN GERALD BALELA | MARIABARRION | MOTHER
 JEAN ALCANTARA | | NO GUARDIAN PROVIDED
 CHRISTIAN PATRICK ACOSTA | | NO GUARDIAN PROVIDED
 MERIET ADARAGON | | NO GUARDIAN PROVIDED
 JHENNY ALERGE | | NO GUARDIAN PROVIDED
(8 rows)
```

```
-- 7. Fetch all students without email address.
SELECT first_name, last_name FROM student
WHERE email IS NULL;
```

```
oeces_database=# SELECT first_name, last_name FROM student
oeces_database=# WHERE email IS NULL;
 first_name | last_name
-----
(8 rows)
```

```
-- 8. Fetch all guardian email addresses and display: 'NO EMAIL PROVIDED' when null.
SELECT first_name, last_name, COALESCE(email, 'NO EMAIL PROVIDED')
FROM guardian;
```

```
oeces_database=# SELECT first_name, last_name, COALESCE(email, 'NO EMAIL PROVIDED')
oeces_database=# FROM guardian;
 first_name | last_name | coalesce
-----
 MARY      | ABEJA    | NO EMAIL PROVIDED
 EDNA     | ABAHA    | NO EMAIL PROVIDED
 JOJO     | AGOGO    | NO EMAIL PROVIDED
 MARIA    | BARRION  | NO EMAIL PROVIDED
(4 rows)
```

```
-- 9. Count the number of members for each suborganization.
SELECT so.suborganization_name, COUNT(ss.suborganization_id)
FROM student_suborganization ss
JOIN suborganization so
     ON so.id = ss.suborganization_id
GROUP BY so.suborganization_name;
```

```
oeces_database=# SELECT so.suborganization_name, COUNT(ss.suborganization_id)
oeces_database=# FROM student_suborganization ss
oeces_database=# JOIN suborganization so
oeces_database=#     ON so.id = ss.suborganization_id
oeces_database=# GROUP BY so.suborganization_name;
 suborganization_name | count
-----
 FORTRECE             | 2
 ATHLECES             | 2
 ARTRONICS            | 1
(3 rows)
```

```
-- 10. Fetch all October babies.
SELECT * FROM student
WHERE EXTRACT(MONTH FROM birthday)= 10;
```

```
oeces_database=# \x
Expanded display is on.
oeces_database=# -- 10. Fetch all december babies.
oeces_database=# SELECT * FROM student
oeces_database=# WHERE EXTRACT(MONTH FROM birthday)= 10;
-[ RECORD 1 ]-----
 student_id | 2021-00149-TS-0
 first_name | ALLEN GERALD
 middle_initial | B
 last_name | BALELA
 gender | M
 email | allenbalela852@gmail.com
 birthday | 2003-10-11
 contact_number | 0997 927 8395
 barangay | ZONE 1
 city | TALISAY
 section_id | 3
-[ RECORD 2 ]-----
 student_id | 2021-00415-TS-0
 first_name | JEAN
 middle_initial | D
 last_name | ALCANTARA
 gender | F
 email | alcantarajeannamari52@gmail.com
 birthday | 2002-10-13
 contact_number | 0965 277 9290
 barangay | MASINI
 city | TANAUAN
 section_id | 4
```