### EXAMPLE #7

### FIND ALL STUDENT IDS WHERE STUDENT LIVES OFF CAMPUS

# (ASSUME THAT OFF-CAMPUS STUDENTS HAVE PORMITORYNAME SET TO NULL)

THIS IS A TABLE NAMED 'CAMPUS\_HOUSING'

StudentID	DormitoryName	AptNumber
1	Gandhi House	110
2	Akbar Hall	231
3	Gandhi House	345
4	NULL	NULL

COLUMNS ARE NAMED 'STUDENTID', 'DORMITORYNAME', 'APTNUMBER'

#### THIS IS A TABLE NAMED 'STUDENTS'

COLUMNS ARE NAMED 'STUDENTID', 'FIRSTNAME', 'LASTNAME', 'GENDER' AND 'EMAIL'

StudentID	FirstName	LastName	Gender	Email
1	Janani	Ravi	F	janani@loonyc orn.com
2	Swetha	Kolalapudi	F	swetha@loony corn.com
3	Navdeep	Singh	M	navdeep@loon ycorn.com
4	Vitthal	Srinivasan	М	vitthal@loonyc orn.com

WHERE STUDENT LIVES OFF CAMPUS

WHICH COLUMNS?
STUPENTIP

WHICH TABLES?

CAMPUS\_HOUSING

ASSUME THAT OFF-CAMPUS STUDENTS HAVE DORMITORYNAME SET TO NULL

SELECT

WHICH COLUMNS?

STUPENTIP

FROM

WHICH TABLES?

CAMPUS\_HOUSING

WHERE

WHICH KOVS?

WHERE STUDENT LIVES OFF CAMPUS

I.E. PORMITORY
NAME IS NULL

SELECT STUDENTID

FROM CAMPUS HOUSING

WHERE DORMITORYNAME IS NULL;

#### DORMITORYNAME IS NULL

### REMEMBER THAT IS NULL AND IS NOT NULL ARE THE CORRECT WAYS TO TEST FOR NULL VALUES

DORMITORYNAME = NULL WOULD

DormitoryName	AptNumber
Gandhi House	110
Akbar Hall	231
Gandhi House	345
NULL	NULL
	Gandhi House Akbar Hall

StudentID	FirstName	LastName	Gender	Email
1	Janani	Ravi	F	janani@loonyc orn.com
2	Swetha	Kolalapudi	F	swetha@loony corn.com
3	Navdeep	Singh	M	navdeep@loon vcorn.com
4	Vitthal	Srinivasan	M	vitthal@loonyc orn.com

# StudentID 4

### EXAMPLE #8

### FIND ALL EMAIL IDS WHERE STUDENT LIVES OFF CAMPUS

# (ASSUME THAT OFF-CAMPUS STUDENTS HAVE PORMITORYNAME SET TO NULL)

THIS IS A TABLE NAMED 'CAMPUS\_HOUSING'

StudentID	DormitoryName	AptNumber
1	Gandhi House	110
2	Akbar Hall	231
3	Gandhi House	345
4	NULL	NULL

COLUMNS ARE NAMED 'STUDENTID', 'DORMITORYNAME', 'APTNUMBER'

#### THIS IS A TABLE NAMED 'STUDENTS'

COLUMNS ARE NAMED 'STUDENTID', 'FIRSTNAME', 'LASTNAME', 'GENDER' AND 'EMAIL'

StudentID	FirstName	LastName	Gender	Email
1	Janani	Ravi	F	<u>janani@loonyc</u> orn.com
2	Swetha	Kolalapudi	F	swetha@loony corn.com
3	Navdeep	Singh	M	navdeep@loon vcorn.com
4	Vittinal	Srinivasan	ÍVÍ	vitthal@loonyc orn.com

WHERE STUDENT LIVES OFF CAMPUS

WHICH COLUMNS? EMAIL IP

WHICH TABLES? STUPENTS, CAMPUS HOUSING

SELECT

WHICH COLUMNS?

EMAIL ID THIS IS OUR FIRST MULTI-TABLE QUERY - NOT TO WORDY

FROM

WHICH STUDENTS,
TABLES? CAMPUS\_HOUSING

WHERE

WHICH KOWS?

WHERE STUDENT LIVES OFF CAMPUS

WHICH EMAIL ID SELECT COLUMNS? THIS IS OUR FIRST MULTI-TABLE QUERY -WHICH STUPENTS, NOT TO WORRY! FROM TABLES? CAMPUS\_HOUSING WHICH WHERE STUDENT WHERE ROWS? LIVES OFF CAMPUS

# AND WE ALSO HAVE TO MATCH THE STUDENTID COLUMN IN THE 2 TABLES!

# AND WE ALSO HAVE TO MATCH THE STUDENTID COLUMN IN THE 2 TABLES!

StudentID	DormitoryName	AptNumber
1	Gandhi House	110
2	Akbar Hall	231
3	Gandhi House	345
4	NULL	NULL

### STUDENTS.STUDENTID = CAMPUS\_HOUSING.STUDENTID

	StudentID	FirstName	LastName	Gender	Email
	1	Janani	Ravi	F	<u>janani@loonyc</u> orn.com
	2	Swetha	Kolalapudi	F	swetha@loony corn.com
	3	Navdeep	Singh	M	navdeep@loon vcorn.com
70	4	Vittiral	Sririivasari	M	vitthal@loonyc orn.com

WHICH EMAIL ID SELECT COLUMNS? MULTI-TABLE QUERY -WHICH STUPENTS, CAMPUS\_HOUSING FROM TABLES? WHICH WHERE STUDENT WHERE ROWS? LIVES OFF CAMPUS

STUPENTS.STUPENTIP = CAMPUS\_HOUSING.STUPENTIP

THIS IS OUR FIRST

NOT TO WORRY!

SELECT EMAIL

FROM STUDENTS, CAMPUS HOUSING

WHERE DORMITORYNAME IS NULL

AND STUDENTS.STUDENTID = CAMPUS HOUSING.STUDENTID;

SELECT EMAIL

FROM STUDENTS S, CAMPUS\_HOUSING C

WHERE DORMITORYNAME IS NULL

AND S.STUDENTID = C.STUDENTID;

#### DORMITORYNAME IS NULL

### REMEMBER THAT IS NULL AND IS NOT NULL ARE THE CORRECT WAYS TO TEST FOR NULL VALUES

DORMITORYNAME = NULL WOULD

StudentID	DormitoryName	AptNumber
1	Gandhi House	110
2	Akbar Hall	231
3	Gandhi House	345
4	NULL	NULL

StudentID	FirstName	LastName	Gender	Email
1	Janani	Ravi	F	<u>janani@loonyc</u> orn.com
2	Swetha	Kolalapudi	F	swetha@loony corn.com
3	Navdeep	Singh	M	navdeep@loon vcorn.com
4	Villiai	Srinivasan	IVI	vitthal@loonyc

**Email** 

vitthal@loonycorn.com