# LET'S DO A LOT OF EXAMPLE QUERIES

# EXAMPLE #1
# FIND ALL EMAIL IDS

# FIND ALL EMAIL IDS

## 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'

| StudentID | FirstName | LastName | Gender | Email |
|-----------|-----------|----------|--------|-------|
| 1 | Janani | Ravi | F | janani@loonycorn.com |
| 2 | Swetha | Kolalapudi | F | swetha@loonycorn.com |
| 3 | Navdeep | Singh | M | navdeep@loonycorn.com |
| 4 | Vitthal | Srinivasan | M | vitthal@loonycorn.com |

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

# FIND ALL EMAIL IDS

**WHICH ROWS?**
ALL

**WHICH COLUMNS?**
EMAIL

**WHICH TABLES?**
STUDENTS

# FIND ALL EMAIL IDS

| SELECT | WHICH COLUMNS? | EMAIL |
| FROM | WHICH TABLES? | STUDENTS |
| WHERE | WHICH ROWS? | ALL |

# FIND ALL EMAIL IDS

SELECT    EMAIL

FROM    STUDENTS ;

REMEMBER, WHEN ALL ROWS ARE TO BE SELECTED, YOU CAN SKIP THE WHERE CLAUSE

# FIND ALL EMAIL IDS

REMEMBER, WHEN ALL ROWS ARE TO BE SELECTED, YOU CAN SKIP THE WHERE CLAUSE

# FIND ALL EMAIL IDS

| 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 | janani@loonycorn.com |
| 2 | Swetha | Kolalapudi | F | swetha@loonycorn.com |
| 3 | Navdeep | Singh | M | navdeep@loonycorn.com |
| 4 | Vitthal | Srinivasan | M | vitthal@loonycorn.com |

# FIND ALL EMAIL IDS

| Email |
| --- |
| janani@loonycorn.com |
| swetha@loonycorn.com |
| navdeep@loonycorn.com |
| vitthal@loonycorn.com |

# EXAMPLE #2

FIND ALL EMAIL IDS WHERE GENDER IS FEMALE

# FIND ALL EMAIL IDS WHERE GENDER IS FEMALE

## 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@loonycorn.com |
| 2 | Swetha | Kolalapudi | F | swetha@loonycorn.com |
| 3 | Navdeep | Singh | M | navdeep@loonyvcorn.com |
| 4 | Vitthal | Srinivasan | M | vitthal@loonycorn.com |

# FIND ALL EMAIL IDS WHERE GENDER IS FEMALE

## WHICH ROWS?
WHERE GENDER IS FEMALE

## WHICH COLUMNS?
EMAIL

## WHICH TABLES?
STUDENTS

# FIND ALL EMAIL IDS WHERE GENDER IS FEMALE

**SELECT**    WHICH COLUMNS?    EMAIL

**FROM**    WHICH TABLES?    STUDENTS

**WHERE**    WHICH ROWS?    WHERE GENDER IS FEMALE

# FIND ALL EMAIL IDS WHERE GENDER IS FEMALE

SELECT EMAIL

FROM STUDENTS

WHERE GENDER = 'F';

REMEMBER, STRING (VARCHAR, CHAR,TIMESTAMP..) VALUES SHOULD BE ENCLOSED IN SINGLE QUOTES

# FIND ALL EMAIL IDS WHERE GENDER IS FEMALE

| 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 | janani@loonycorn.com |
| 2 | Swetha | Kolalapudi | F | swetha@loonycorn.com |
| 3 | Navdeep | Singh | M | navdeep@loonycorn.com |
| 4 | Vitthal | Srinivasan | M | vitthal@loonycorn.com |

# FIND ALL EMAIL IDS WHERE GENDER IS FEMALE

| Email |
| :---: |
| janani@loonycorn.com |
| swetha@loonycorn.com |

# EXAMPLE #3

FIND ALL EMAIL IDS WHERE STUDENT ID = 4

# FIND ALL EMAIL IDS WHERE STUDENT ID = 4

## 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@loonycorn.com |
| 2 | Swetha | Kolalapudi | F | swetha@loonycorn.com |
| 3 | Navdeep | Singh | M | navdeep@loonycorn.com |
| 4 | Vitthal | Srinivasan | M | vitthal@loonycorn.com |

# FIND ALL EMAIL IDS WHERE STUDENT ID = 4

## WHICH ROWS?
WHERE STUDENT ID = 4

## WHICH COLUMNS?
EMAIL

## WHICH TABLES?
STUDENTS

# FIND ALL EMAIL IDS WHERE STUDENT ID = 4

| | | |
|---|---|---|
| SELECT | WHICH COLUMNS? | EMAIL |
| FROM | WHICH TABLES? | STUDENTS |
| WHERE | WHICH ROWS? | WHERE STUDENT = 4 |

# FIND ALL EMAIL IDS WHERE STUDENT ID = 4

SELECT **EMAIL**

FROM **STUDENTS**

WHERE **STUDENTID = 4;**

# FIND ALL EMAIL IDS WHERE STUDENT ID = 4

| 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 | janani@loonycorn.com |
| 2 | Swetha | Kolalapudi | F | swetha@loonycorn.com |
| 3 | Navdeep | Singh | M | navdeep@loonycorn.com |
| 4 | Vitthal | Srinivasan | M | vitthal@loonycorn.com |

# FIND ALL EMAIL IDS WHERE STUDENT ID = 4

| Email |
| --- |
| vitthal@loonycorn.com |

# EXAMPLE #4

FIND ALL EMAIL IDS WHERE STUDENT ID <> 4

# FIND ALL EMAIL IDS WHERE STUDENT ID <> 4

## 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@loonycorn.com |
| 2 | Swetha | Kolalapudi | F | swetha@loonycorn.com |
| 3 | Navdeep | Singh | M | navdeep@loonycorn.com |
| 4 | Vitthal | Srinivasan | M | vitthal@loonycorn.com |

# FIND ALL EMAIL IDS WHERE STUDENT ID <> 4

## WHICH ROWS?
WHERE STUDENT ID <> 4

## WHICH COLUMNS?
EMAIL

## WHICH TABLES?
STUDENTS

# FIND ALL EMAIL IDS WHERE STUDENT ID <> 4

| | | |
|---|---|---|
| SELECT | WHICH COLUMNS? | EMAIL |
| FROM | WHICH TABLES? | STUDENTS |
| WHERE | WHICH ROWS? | WHERE STUDENT ID <> 4 |

# FIND ALL EMAIL IDS WHERE STUDENT ID <> 4

SELECT **EMAIL**

FROM **STUDENTS**

WHERE **WHERE STUDENT ID <> 4 ;**

# FIND ALL EMAIL IDS WHERE STUDENT ID <> 4

| 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 | janani@loonycorn.com |
| 2 | Swetha | Kolalapudi | F | swetha@loonycorn.com |
| 3 | Navdeep | Singh | M | navdeep@loonycorn.com |
| 4 | Vitthal | Srinivasan | M | vitthal@loonycorn.com |

# FIND ALL EMAIL IDS WHERE STUDENT ID <> 4

| Email |
| :---: |
| janani@loonycorn.com |
| swetha@loonycorn.com |
| navdeep@loonycorn.com |

# EXAMPLE #5

FIND ALL EMAIL IDS WHERE STUDENT ID > 4

# FIND ALL EMAIL IDS WHERE STUDENT ID > 4

## 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@loonycorn.com |
| 2 | Swetha | Kolalapudi | F | swetha@loonycorn.com |
| 3 | Navdeep | Singh | M | navdeep@loonycorn.com |
| 4 | Vitthal | Srinivasan | M | vitthal@loonycorn.com |

# FIND ALL EMAIL IDS WHERE STUDENT ID > 4

## WHICH ROWS?
### WHERE STUDENTID > 4

## WHICH COLUMNS?
### EMAIL

## WHICH TABLES?
### STUDENTS

# FIND ALL EMAIL IDS WHERE STUDENT ID > 4

SELECT | WHICH COLUMNS? | EMAIL

FROM | WHICH TABLES? | STUDENTS

WHERE | WHICH ROWS? | WHERE STUDENTID > 4

# FIND ALL EMAIL IDS WHERE STUDENT ID > 4

SELECT **EMAIL**

FROM **STUDENTS**

WHERE **STUDENTID > 4;**

# FIND ALL EMAIL IDS WHERE STUDENT ID > 4

| 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 | janani@loonycorn.com |
| 2 | Swetha | Kolalapudi | F | swetha@loonycorn.com |
| 3 | Navdeep | Singh | M | navdeep@loonycorn.com |
| 4 | Vitthal | Srinivasan | M | vitthal@loonycorn.com |

# FIND ALL EMAIL IDS WHERE STUDENT ID > 4

| Email |
| --- |
|  |
|  |
|  |
|  |

## HERE THE RESULT IS AN EMPTY TABLE, WITH ONE COLUMN NAMED 'EMAIL' ,BUT NO ROWS!

# EXAMPLE #6
## FIND ALL EMAIL IDS WHERE STUDENT ID <= 4

# FIND ALL EMAIL IDS WHERE STUDENT ID <= 4

## 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'

| StudentID | FirstName | LastName | Gender | Email |
|-----------|-----------|----------|--------|-------|
| 1 | Janani | Ravi | F | janani@loonycorn.com |
| 2 | Swetha | Kolalapudi | F | swetha@loonycorn.com |
| 3 | Navdeep | Singh | M | navdeep@loonycorn.com |
| 4 | Vitthal | Srinivasan | M | vitthal@loonycorn.com |

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

# FIND ALL EMAIL IDS WHERE STUDENT ID <= 4

## WHICH ROWS?
### WHERE STUDENTID <= 4

## WHICH COLUMNS?
### EMAIL

## WHICH TABLES?
### STUDENTS

# FIND ALL EMAIL IDS WHERE STUDENT ID <= 4

SELECT    **WHICH COLUMNS?**    **EMAIL**

FROM    **WHICH TABLES?**    **STUDENTS**

WHERE    **WHICH ROWS?**    **WHERE STUDENTID <= 4**

# FIND ALL EMAIL IDS WHERE STUDENT ID <= 4

```
SELECT EMAIL

FROM STUDENTS

WHERE STUDENTID <= 4;
```

# FIND ALL EMAIL IDS WHERE STUDENT ID <= 4

| 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 | janani@loonycorn.com |
| 2 | Swetha | Kolalapudi | F | swetha@loonycorn.com |
| 3 | Navdeep | Singh | M | navdeep@loonyvcorn.com |
| 4 | Vitthal | Srinivasan | M | vitthal@loonycorn.com |

# FIND ALL EMAIL IDS WHERE STUDENT ID <= 4

| Email |
|---|
| janani@loonycorn.com |
| swetha@loonycorn.com |
| navdeep@loonycorn.com |
| vitthal@loonycorn.com |