

# CS 327E Class 2

September 16, 2019

1) Which is **not** a Data Manipulation Language construct?

- a) CREATE
- b) SELECT
- c) INSERT
- d) UPDATE

## 2) How many fields does this query return?

```
SELECT group FROM ACL_Lineup_2019
```

ACL\_Lineup\_2019

id	group	genre	date	venue
6	Guns N' Roses	Heavy Metal	2019-10-04	American Express
82	The Cure	Gothic Rock	2019-10-05	Honda
79	21 Savage	Hip Hop	2019-10-05	T-Mobile
43	Asleep At The Wheel	Country	2019-10-04	Honda

- a) 5
- b) 4
- c) 1
- d) 0

### 3) How many records does this query return?

```
SELECT * FROM ACL_Lineup_2019  
WHERE date = '2019-10-04'
```

ACL\_Lineup\_2019

id	group	genre	date	venue
6	Guns N' Roses	Heavy Metal	2019-10-04	American Express
82	The Cure	Gothic Rock	2019-10-05	Honda
79	21 Savage	Hip Hop	2019-10-05	T-Mobile
43	Asleep At The Wheel	Country	2019-10-04	Honda

- a) 5
- b) 4
- c) 2
- d) 0

## 4) How many records does this query return?

```
SELECT count(*) FROM ACL_Lineup_2019
WHERE genre = 'Hip Hop'
AND date = '2019-10-04'
```

ACL\_Lineup\_2019

id	group	genre	date	venue
6	Guns N' Roses	Heavy Metal	2019-10-04	American Express
82	The Cure	Gothic Rock	2019-10-05	Honda
79	21 Savage	Hip Hop	2019-10-05	T-Mobile
43	Asleep At The Wheel	Country	2019-10-04	Honda

- a) 5
- b) 4
- c) 2
- d) 0

5) Why can it be challenging to embed DML statements into an OO program (e.g. python, java, etc.)?

- a) Datatype differences
- b) Naming convention differences
- c) Access differences
- d) None of the above

# SQL Queries: Basic Form

```
SELECT <list of desired fields>  
FROM <single table>  
WHERE <boolean condition>
```

# SQL Queries: Basic Form

SELECT <list of desired fields>

FROM <single table>

WHERE <boolean condition>

ORDER BY <list of fields to sort on>



# Demo: Table Creation

# Staging Schema

Current\_Student(sid, fname, lname, dob, cno, cname, credits, grade)

New\_Student(sid, fname, lname, dob)

Class(tid, instructor, dept, cno, cname, credits)

# First Question

*Who takes CS327E or CS329E?*

Current\_Student(sid, fname, lname, dob, cno, cname, credits, grade)

New\_Student(sid, fname, lname, dob)

Class(tid, instructor, dept, cno, cname, credits)

# iClicker Question

*Who takes CS327E or CS329E?*

How many records does the answer return?

- A. 5
- B. 6
- C. 7

# Second Question

*Who takes CS327E and CS329E?*

Current\_Student(sid, fname, lname, dob, cno, cname, credits, grade)

New\_Student(sid, fname, lname, dob)

Class(tid, instructor, dept, cno, cname, credits)

# iClicker Question

*Who takes CS327E and CS329E?*

Is this query a correct implementation?

```
SELECT sid
FROM Current_Student
WHERE cno = 'CS327E'
      AND cno = 'CS329E'
```

- |                            |
|----------------------------|
| <p>A. Yes</p> <p>B. No</p> |
|----------------------------|

# Demo: Public Datasets and Import Errors

# Milestone 2

<http://www.cs.utexas.edu/~scohen/milestones/Milestone2.pdf>