CRUD: DELETE

Database Development 2021
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Using the database

- Create
  - Create/Add data to the table
- Read
  - Get data – all the SELECT queries we have been doing
- Update
  - Replace existing data
- Delete
  - Act like a Dalek!

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Removing Data

- This works on a row/record level
- Need to specify the table
- WHERE clause should be required but it isn't
- Foreign Key integrity is kind of a big deal
- Be sure to use TCL language before making changes

DELETE Structure

```
DELETE FROM
    table_name
WHERE
    some_condition_or_conditions!!!;
```

DELETE Demo

```
DELETE FROM
    grade_conversion
WHERE
    max_grade LIKE '8_';
```

DELETE Demo 2

```
1 DELETE FROM
2     zipcode
3 WHERE
4     zip LIKE '100%';
```

```
Error starting at line : 1 in command -
DELETE FROM
    zipcode
WHERE
    zip LIKE '100%'
Error report -
ORA-02292: integrity constraint (C##CS2550CODYHENRICHSEN.INST_ZIP_FK) violated - child record found
```

Advanced DELETE

- When removing data from the database that has dependencies you will need to examine the structure of the database in advance
- Identify the Primary Key / Foreign Key relationships between the tables
- If a FK value cannot be changed to a different FK, then that row will need to be deleted before deleting the target row
- Dependencies can be cascaded across the database so check it out before attempting to delete

DELETE and TCL

- Make sure you have a SAVEPOINT before you do any DELETE operations
- Use the ROLLBACK TO savepoint_name to restore database state
- Only use a COMMIT when you KNOW IT IS DONE