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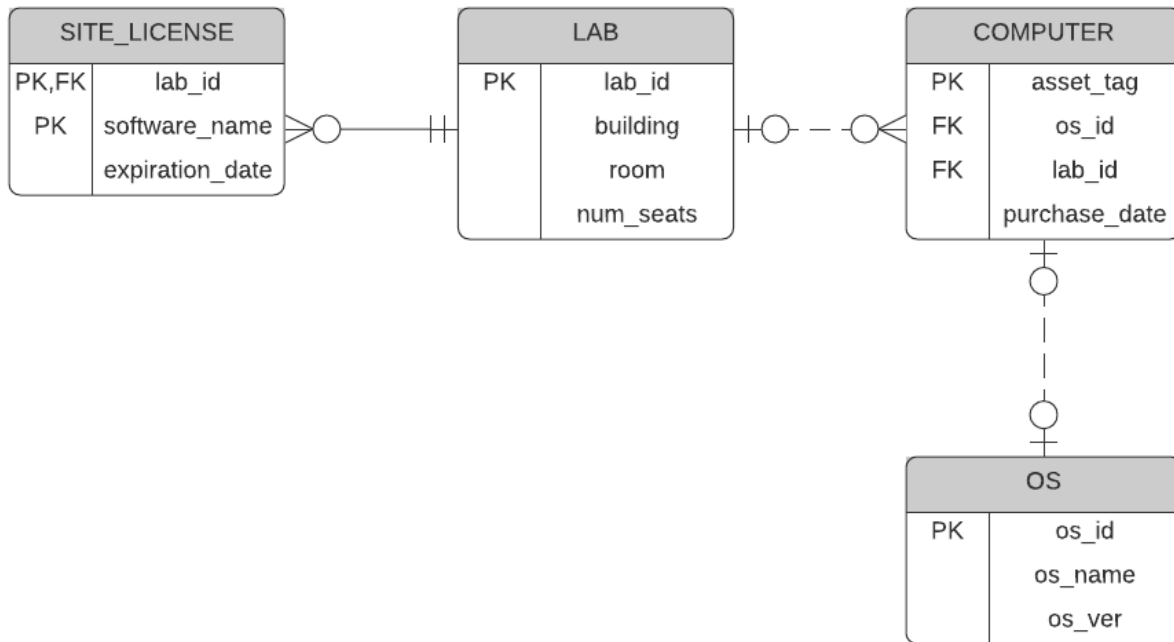
44-560: Advanced Topics in Database Systems

Assignment 03: SQL Review

Consider the following ER diagram:

Assignment 03: SQL Review

Nathan Elie | June 14, 2020



Create a `.sql` file that can be executed in SQL developer named `lastname_a03.sql`. Identify each answer (or output) in the file with a comment indicating the question number.

Write SQL statements that accomplish the following (or answer the following questions); where possible you should use one SQL statement

1. Create all tables and relationships (include all primary keys, foreign keys, attributes, and make educated guesses about appropriate data types) for the ERD above.
2. Insert three records into each table except the `COMPUTER` table; this should have at least two entries for each `LAB`. Note that not all labs need site licenses.
One of your `OS` records must contain `('Debian Linux', 10.4)` as the `name` and `version`, respectively. You must create at least 15 records overall.
3. Alter the `LAB` table so the `building` attribute has type `VARCHAR(4)`
4. Update the `Debian Linux` record to have a `name` and `version` of `RHEL` and `8.2`
5. Display the `building`, `room`, `purchase date`, and `OS name` for every computer in all of the labs; the output should be sorted by `building` and `room`, ascending.
6. Display the total number of computers in each lab (think `GROUP BY`)
7. Commit the Database

8. Display all data in all tables separately (do not use a join; use multiple SELECT statements)
9. Drop all tables in the Database; in a comment in your sql file answer the question:
Why must you drop the tables in a specific order?
10. Roll back the database
11. Display all data in all tables separately (do not use a join)
12. Explain the output you get from problem 11. Put your answer as a comment in the sql file.

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