**DBMS Laboratory**

**UE19CS304**

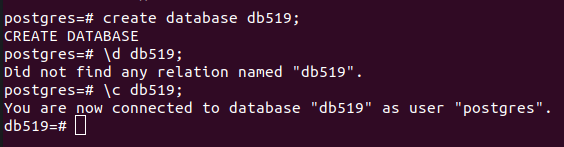
**5th Semester, Academic Year 2021-22**

Week #: 4 - Constraints and Views Date: 26/9/2021

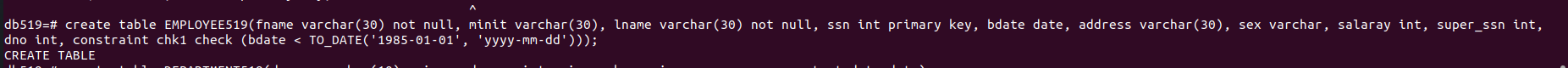
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| --- | --- | --- |
| Name :  SUMUKH RAJU BHAT | SRN :  PES1UG19CS519 | Section :  H |

1. Constraints:

- Creating and using a db called db519



- Create employee table called employee519. Set primary key, not null and check constrainsts as specified



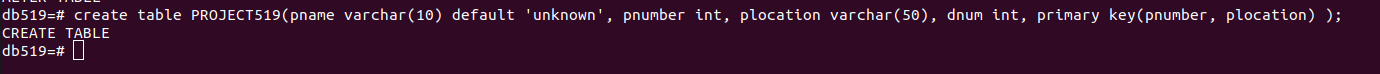
- Create department table called department519. Set primary key and unique constraints as specified.

Screenshot from 2021-09-26 11-53-41

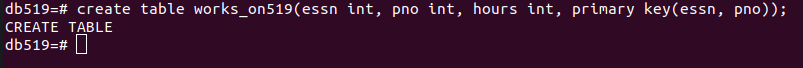
- Create dept\_locations table called dept\_locations519. Set primary keys.

Screenshot from 2021-09-26 11-54-30

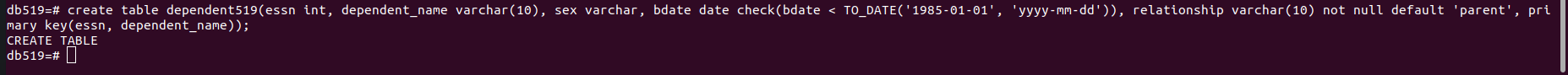
- Create projects table called project519. Set primary keys, default value.



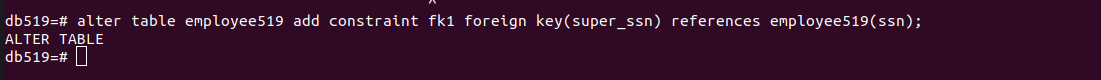
- Create works\_on table called works\_on519. Set primary keys.

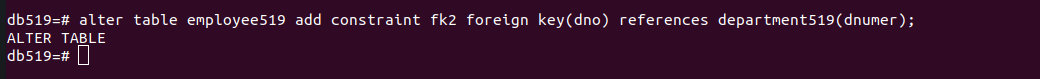


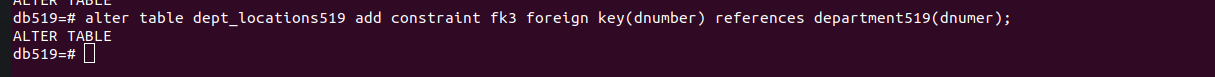
- Create dependents table called dependents519. Set primary keys, check constraint, default value and not null constraint as specified.

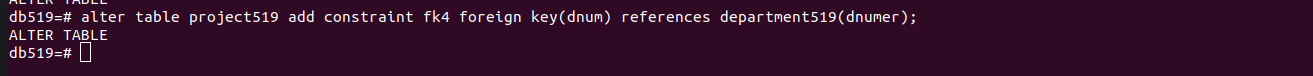


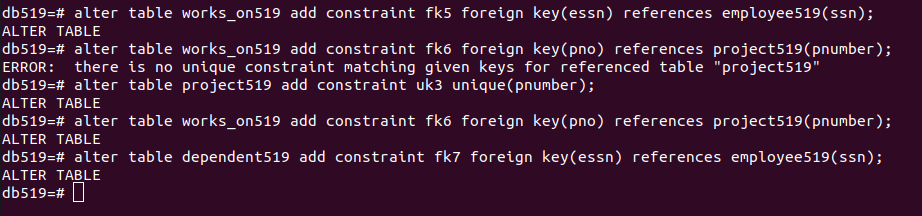
- Set foreign keys in all the tables using alter command:



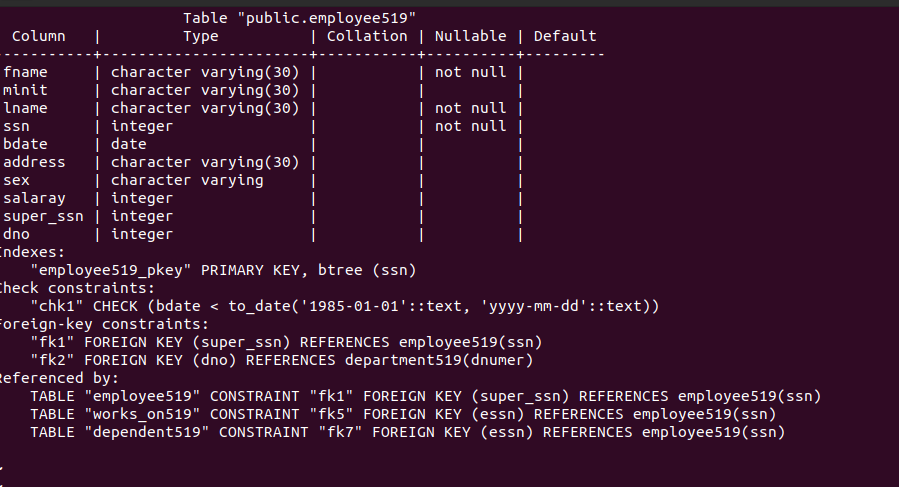


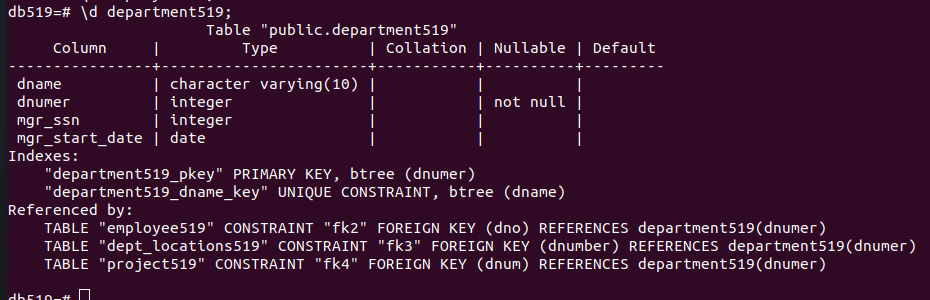


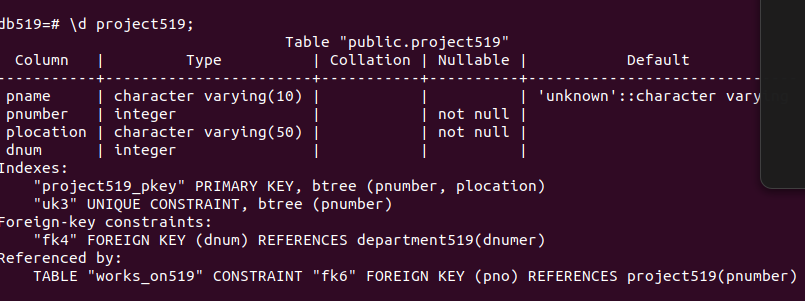


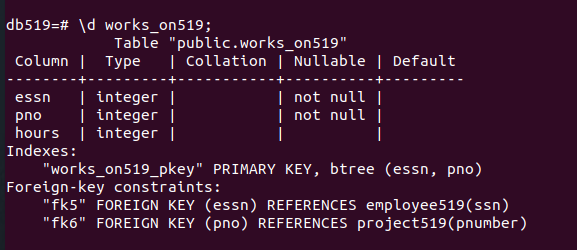


- Resultant schemas after all the mentioned commands:





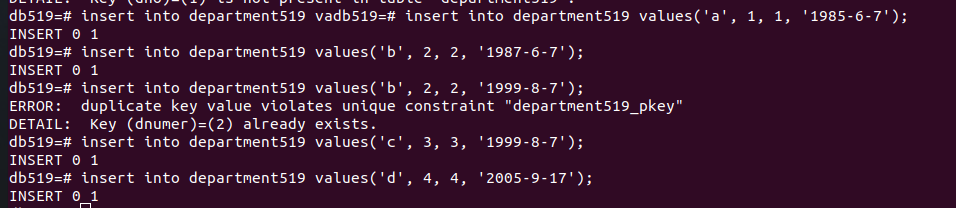






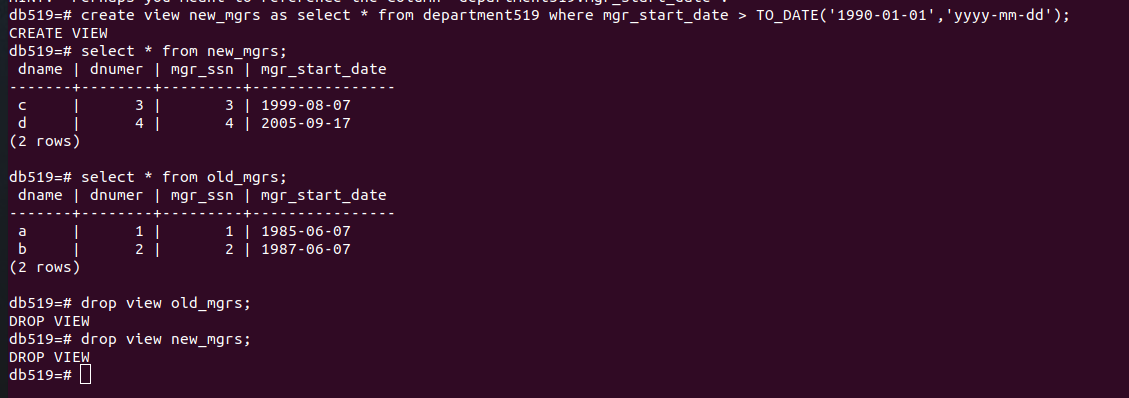
1. (b) Views:

- Insert some values into the department519 table to showcase view commands



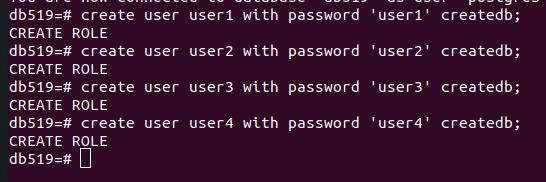
- Create 2 views new\_mgrs and old\_mgrs based on mgr\_start\_date with a threshold of 1990 using create view command. The resultant view is also shown using select command. Finally they are dropped using drop view command.

Screenshot from 2021-09-26 12-23-21

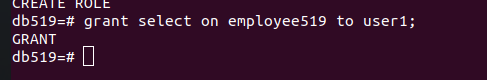


c) (2.c.) Create users, grant and revoke previliges

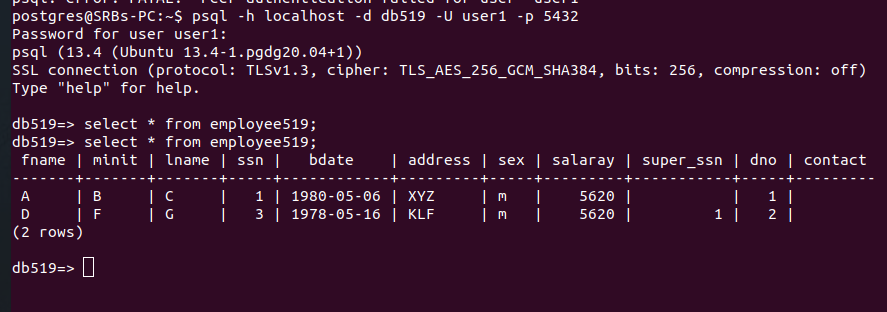
- Create users



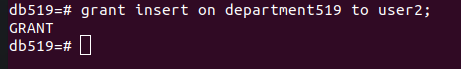
1. Grant select previliges to user1 on employee table



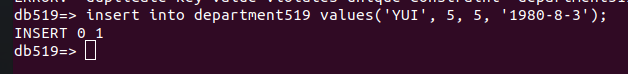
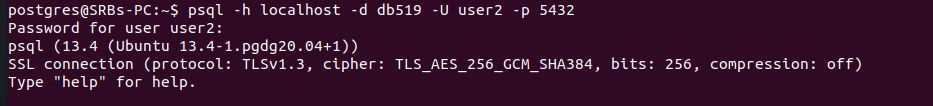
Verification:



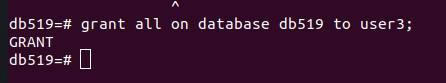
1. Grant insert previliges on department table to user2



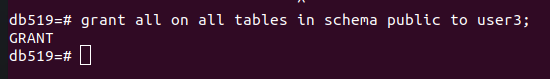
Verification:



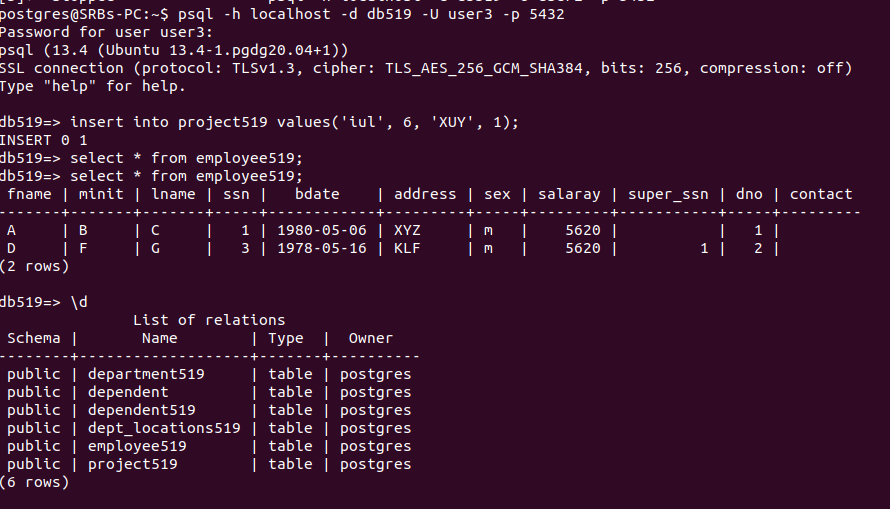
1. Grant all previliges to user3 on all tables

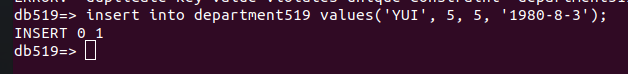


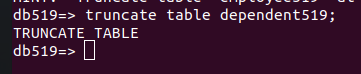
OR

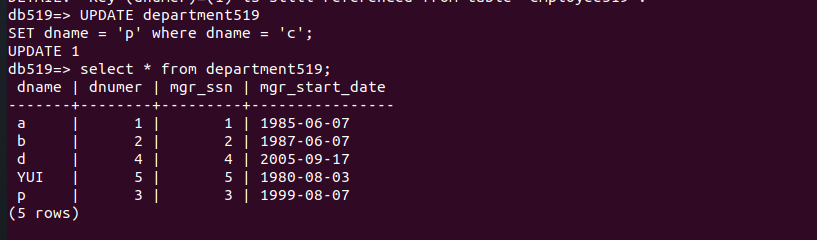


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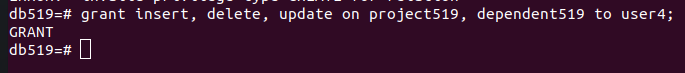




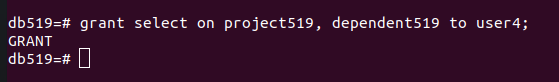




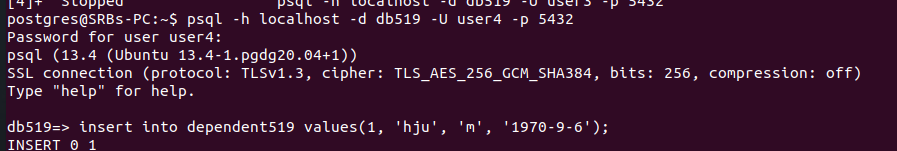
1. Grant insert, delete, update previliges on project and dependent table to user4

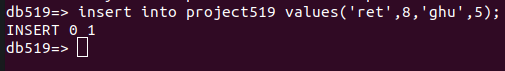


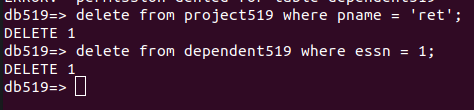
NOTE: to use the where clause for deleting specific records and updating specific records, we need to provide previlige of select command as well.

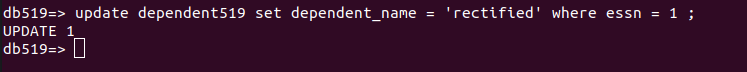


Verification:





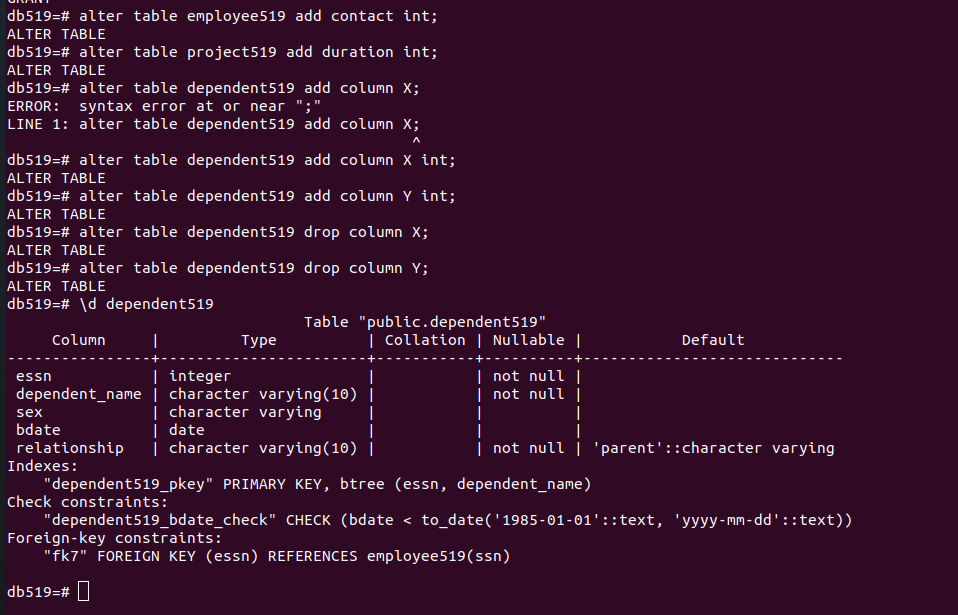




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d) (2.d.)Add and drop columns using alter command

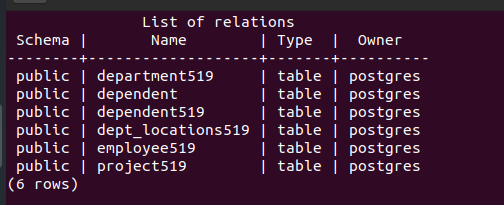
- Add new column contact in employee and duration in project. For the purpose of showcasing drop column, columns X and Y are newly added and dropped. The effect is also shown. The schema has no X and Y after dropping which is initially added.



1. (2.a.) Drop and truncate tables

- Drop works\_on table. We can see that the schema is not present after dropping. As drop deletes all the entries and also the schema.

Screenshot from 2021-09-26 13-33-42



- Truncate dependents table. Even after truncating, the schema is present because truncate deletes only the entries and keeps the schema.

