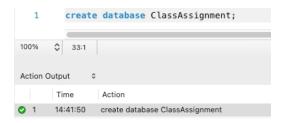
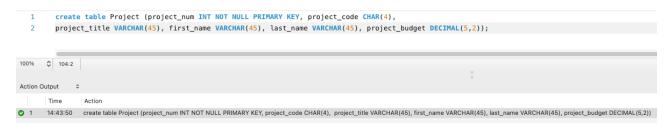
1. Create Database schema called ClassAssignment



2. Create a table called Project with the following columns:

project_num INT NOT NULL PRIMARY KEY project_code CHAR(4) project_title VARCHAR(45) first_name VARCHAR(45)

last_name VARCHAR(45) project_budget DECIMAL(5,2)

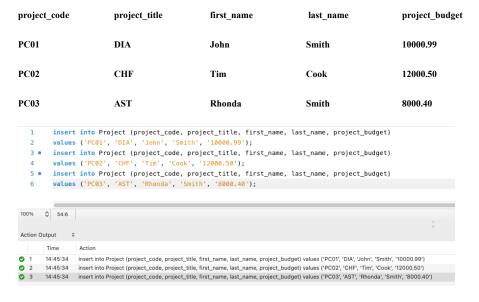


3. Modify project num to auto increment and also auto increment starts from 10.

- 4. Modify project_budget datatype from decimal (5, 2) to (10, 2).
 - 1 alter table Project modify column project_budget decimal(10,2);



Insert following values into the Project table.
 DO NOT insert project_num. Auto_increment should start from 10



6. Create a table PayRoll with the following info:

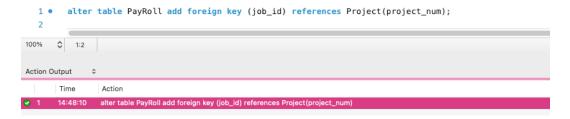
employee_num INT PRIMARY KEY AUTO_INCREMENT job_id INT NOT NULL job_desc VARCHAR(40) emp_pay DECIMAL (10,2)



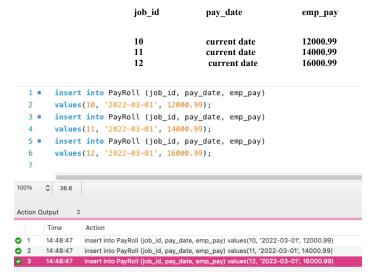
- 7. Alter PayRoll table with the following, make sure to write each script separately.
 - i. Add constraint on emp_pay so that only value greater than 10,000 can be inserted.
 - ii. Add constraint on job_desc so that default value set to 'Data Analyst'.
 - iii. Add column pay_date (DATE) after job_desc.



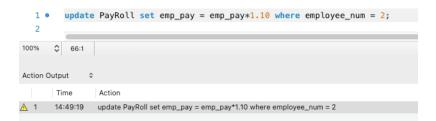
8. Add Foreign Key constraint in PayRoll table with job_id column referencing to project_num column in Project table.



9. Insert following values into PayRoll table. DO NOT insert employee_num and job_desc, those should be auto populated using auto_increment and default values, respectively.



10. Update emp_pay in PayRoll table for employee_num = 2 with 10% emp_pay increase.



- 11. Create Project_backup table from project table you created above using bulk insert statement only for last_name 'Smith'.
- 1 create table Project_backup as (select * from Project where last_name = 'Smith');



12. Create VIEW as PayRoll_View from PayRoll table you created above. However, your VIEW should only contain job_id, job_desc and pay_date for job_id > 10.

```
1 create view PayRoll_View as select job_id, job_desc, pay_date from PayRoll where job_id >10;
2

100% $\rightarrow$ 1:2

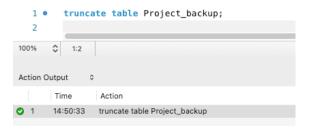
Action Output $\rightarrow$ | Time | Action

1 14:49:55 create view PayRoll_View as select job_id, job_desc, pay_date from PayRoll where job_id >10
```

13. Create Index for pay_date on PayRoll table.

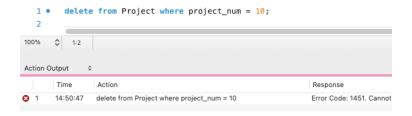


14. Delete all data from project backup table but keep the table structure.



15. Write a DELETE script to delete a row from Project table where project_num = 10. If there is an error, give a short explanation of what/why about error msg?

This error message appeared because we tried to delete/modify a value that was used in a foreign key constraint (job_id in PayRoll references project_num in Project). This is because if we modified project_num in the Project table, the job_id column values in the PayRoll table would also be affected. In order to make changes to project_num, we must first drop the foreign key relationship between these two entities.



16. Solve the question 15 above without error, i.e. write a script how you can delete.

