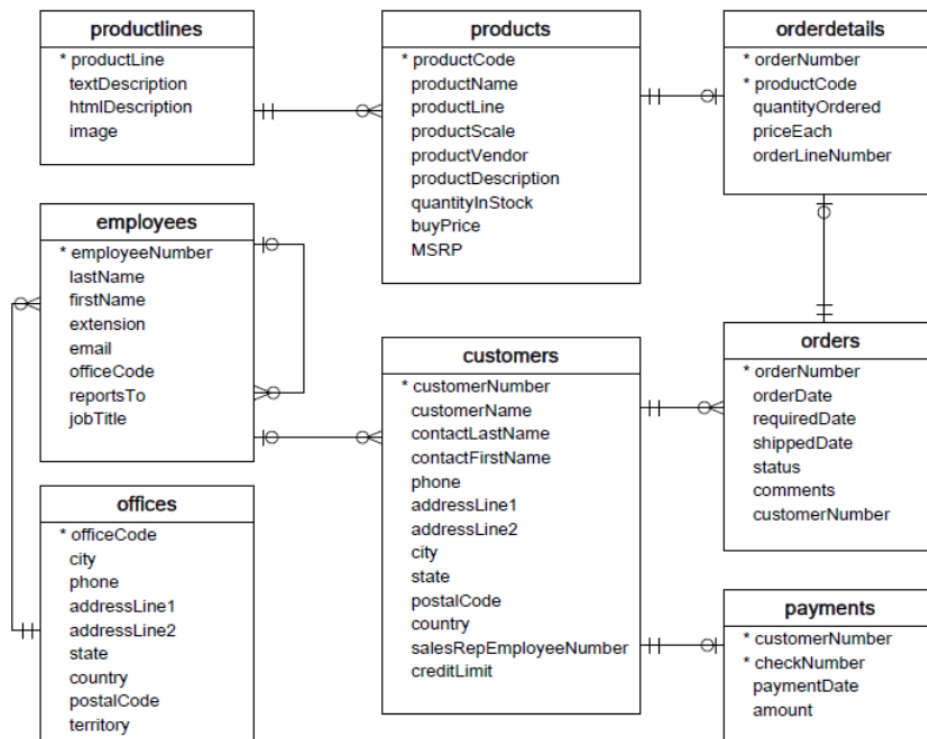


Views and Triggers

Introduction

In this lab you familiarise yourself with the classicmodels database. The database consists of the following tables:

- Customers: stores customer's data.
- Products: stores a list of scale model cars.
- ProductLines: stores a list of product line categories.
- Orders: stores sales orders placed by customers.
- OrderDetails: stores sales order line items for each sales order.
- Payments: stores payments made by customers based on their accounts.
- Employees: stores all employee information as well as the organization structure such as who reports to whom.
- Offices: stores sales office data.



Note: This lab expects some independent study. Although we have not discussed views in the lecture material you should research them to complete this lab.

Tasks

1. Download the classicmodels database sql file from Blackboard
2. Import the database into MySQL server.

3. Construct the SQL that will select the customer name, check number, payment date and amount using tables customers and payments.
4. Create a view for the SQL above and name it appropriately.
5. Write the SQL that will return the full extent of the view.
6. Write the SQL that returns the check numbers, payment dates and amounts for customer Atelier graphique using the view you created earlier.
7. Write the SQL that will show you the payment dates and amounts for amounts greater than 10,000.
8. Write the SQL that will select the customer name, order number, order date and status for orders that have a status equal to Resolved.
9. Create a view for the SQL in task 8 with an appropriate name.
10. Write the SQL that will return the full extent of the view.
11. Write the SQL that will update the status from resolved to Shipped for Toys4GrownUps.com
12. Execute the SQL that will return the full extent of the view to make sure the update was successful.
13. Write the SQL that will get the employee number, firstname, lastname and address lines 1 and 2 of their offices.
14. Create a view for the SQL above with an appropriate name.
15. Write the SQL that will return the full extent of the view.
16. Write the SQL that shows all employees that work at 43 Rue Jouffroy D'abbans.
17. Write the SQL that will update address line 2 to Floor 4 for employees that work at 43 Rue Jouffroy D'abbans.
18. Execute the SQL that shows all employees that work at 43 Rue Jouffroy D'abbans to make sure the update worked as intended.
19. Create a new table called employees_audit with id as an integer which auto increments and is the primary key, an employee number which is an integer and should not be null, lastname as varchar 50 and not null, changedat as a datetime, and action as a varchar 50.

20. Next create a trigger that will populate the table above each time a change is made to the employee table. The action attribute should be set to 'update', the employee number should be set to the employee number of the record that was update, the surname of the record that was updated and the time and date when the update was made.
21. For those employees that have the job title Sales Rep, change their job title to Sales Consultant.
22. Check the audit table to make sure the correct details were captured.
23. Create web pages for tasks 5, 6, 7, 10, 11, 16 and 17.