**Answer Using Views**

**I. Exercises**

1. Create a view that show all category information from table category. You view should store data in the form as this figure:

**create** **view** v\_catlist **as** **select** catid **as** 'Category ID',

catname **as** 'Category Name', description **as** Description

**from** category;

1. Create a view that represents a report of products that include this information: product id, product name, quantity, unit price, subtotal, category name and store name. Your report should list all products even they don’t have category or store.

**create** **view** v\_productlist **as**

**select** product.pid **as** 'Product ID', product.pname **as** 'Product Name',

product.quantity **as** Quantity, product.unitprice **as** 'Unit Price',

concat('$ ',format(product.quantity\*product.unitprice,3)) **as** Subtotal,

category.catname **as** 'Category Name', store.storename **as**

'Store Name' **from** product **left** **join** category **on** product.catid =

category.catid **left** **join** store **on** product.storeid = store.storeid;

1. Create a view that represents a report of store manager by including this information: manger id, manager name, manager department, location and store name.

**create** **view** v\_managerlist **as**

**select** employee.id **as** 'Manager ID', concat(employee.firstname,' ',

employee.lastname) **as** 'Manager Name',

tbldepartment.departmentname **as** Department,

store.storename **as** 'Store Name', location.locationname **as** 'Location'

**from** employee **inner** **join** tbldepartment **on**

employee.departmentid = tbldepartment.departmentid **inner** **join**

location **on** employee.id = location.managerid **inner** **join**

store **on** location.locationid=store.locationid ;

1. Create a view that represents a report of the product summarization by including this information: category name, number of product in each category, total quantity of product, total amount, minimum quantity, maximum quantity, average quantity and total cost of product group by category.

**create** **view** v\_summary **as**

**select** category.catname **as** 'Category Name',

count(product.pid) **as** 'Number of Product',

sum(product.quantity) **as** 'Total Quantity',

concat('$ ',format(sum(product.quantity\*product.unitprice),3)) **as**

'Sub Total', min(product.quantity) **as** 'Minimum Quantity',

max(product.quantity) **as** 'Maximum Quantity',

format(avg(product.quantity),0) **as** 'Average Quantity',

concat('$ ',format(sum(product.unitprice),3)) **as** 'Total Cost'

**from** product **inner** **join** category **on** product.catid = category.catid

**group** **by** category.catid;

1. Create a view that represents a report of sales in 2009. This report should include this information: sale id, product name, quantity sold, unit price, subtotal and seller name.

**create** **view** v\_salereport **as**

**select** sales.salesid **as** 'Sale ID', product.pname **as** 'Product Name',

sales.quantity **as** 'Sold Quantity', concat('$ ',product.unitprice) **as** 'Unit Price',

concat('$ ',format(sales.quantity \* product.unitprice,3)) **as** 'Sub Total',

sales.seller **as** 'Seller Name' **from** sales **inner** **join** product **on** sales.pid=product.pid

**where** year(sales.salesdate)=2009;

1. Create a view that represents a report of seller from 2009 to 2010 by including this information: seller name, minimum quantity sold, maximum quantity sold, total quantity sold and total amount.

**create** **view** v\_sellerreport **as**

**select** sales.seller **as** 'Seller Name', min(sales.quantity) **as** 'Minimum Quantity',

max(sales.quantity) **as** 'Maximum Quantity', sum(sales.quantity) **as** 'Total Quantity',

concat('$ ',format(sum(sales.quantity\*product.unitprice),3)) **as** 'Total Amount'

**from** sales **inner** **join** product **on** sales.pid = product.pid **group** **by** sales.seller;

1. Create a view that represents a sale report by year. Your report should include this information: year, minimum sale, maximum sale, average sale and total sale.

**create** **view** v\_annulreport **as**

**select** year(sales.salesdate) **as** 'Year', concat('$ ',format(min(sales.quantity\*product.unitprice),3))

**as** 'Min Sale', concat('$ ',format(max(sales.quantity\*product.unitprice),3)) **as** 'Max Sale',

concat('$ ', format(avg(sales.quantity\*product.unitprice),3)) **as** 'Average Sale',

concat('$ ', format(sum(sales.quantity\*product.unitprice),3)) **as** 'Total Sale' **from** sales

**inner** **join** product **on** sales.pid = product.pid **group** **by** year(sales.salesdate);