# Membership Retention

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## Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Author** | **Description** |
| August 25, 2014 | 1 | Chandler Xue | Initial |

## Introduction

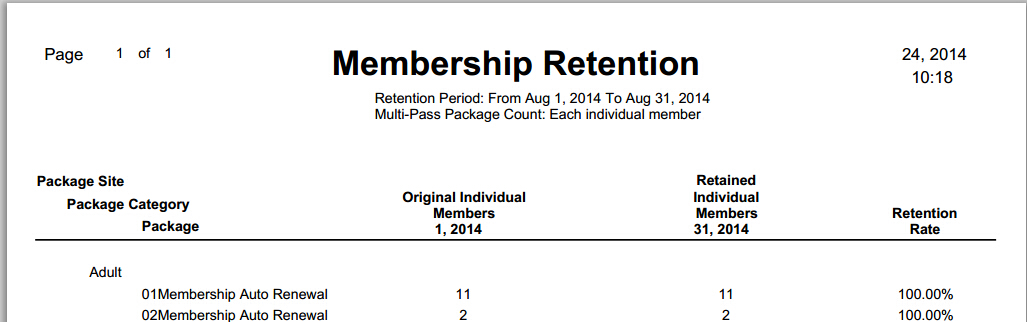
To show the retention information about membership.

Obtain the members retention information during Retention Period which in the same package when select “Same package”

Obtain the members retention information during Retention Period which in the different package when select “different package”

Obtain the members retention information during Retention Period when select “Any package”

## Column from



**Package Site** : The package’s site information, be empty if select “All Sites”

**Package Category** : The package’s category information

**Package** : The package’s name

**Original Individual Members** : The members amount in the package at the From Date of Retention Period

**Retained Individual Members** : The members amount in the package at the To Date of Retention Period

**Retention Rate** : Retained Individual Members/ Original Individual Members

**Related Database Tables**

**PACKAGES** : Record basic information of package, such as package name, category…

Package\_ID is primary key

PackageCategory\_ID is foreign key of relate to PACKAGE\_CATEGORIES

Site\_ID is foreign key of relate to SITES

**PACKAGE\_CATEGORIES :** Record basic information of package category, such as package category name, category description…

PackageCategory\_ID is primary key

**SITES :** Record basic information of site, such as site name, Address…

Site\_ID is primary key

Geographic\_Area\_ID is foreign key of relate to GEOGRAPHIC\_AREAS

POSLayoutID is foregin key of relate to POSLAYOUTPROPERTIES

**CUSTOMERS :** Record basic information of customer, such as customer name, Address…

Customer\_ID is primary key

CustomerType\_ID is foreign key of relate to CUSTOMERTYPES

Geographic\_Area\_ID is foreign key of relate to GEOGRAPHIC\_AREAS

LastPayee\_ID is foreign key of relate to ?

Site\_ID is foreign key of relate to SITES

**CUSTOMER\_MEMBERSHIP\_DATES :** Record the relation between customer and the membership who enroll.

Customer\_Membership\_Date\_ID is primary key

**AGE\_CATEGORIES :** Record basic information of age restriction, such as lower age, upper age…

Age\_Category\_ID is primary key

**MEMBERSHIPS :** Record basic information of membership

Membership\_ID is primary key

Package\_ID is the foreign key of relate to PACKAGES

PrimaryMemberCustomer\_ID is the foreign key of relate to CUSTOMERS

## SQL of Count EACH individual member

SELECT CUSTOMERS.customer\_id AS customer\_id,

PACKAGES.packagename AS packagename,

PACKAGES.package\_id AS package\_id,

SITES.site\_id AS site\_id,

SITES.sitename AS sitename,

PACKAGE\_CATEGORIES.categoryname AS categoryname,

PACKAGE\_CATEGORIES.packagecategory\_id AS packagecategory\_id,

(CASE

WHEN

(SELECT count(CUST.customer\_id) AS c

FROM CUSTOMER\_MEMBERSHIP\_DATES "CUSTOMER\_MEMBERSHIP\_DATES"

RIGHT JOIN CUSTOMERS CUST ON CUSTOMER\_MEMBERSHIP\_DATES.customer\_id=CUST.customer\_id

JOIN MEMBERSHIPS MEMBERSHIPS ON CUSTOMER\_MEMBERSHIP\_DATES.membership\_id=MEMBERSHIPS.membership\_id

JOIN PACKAGES PACK ON CUSTOMER\_MEMBERSHIP\_DATES.package\_id=PACK.package\_id

LEFT JOIN PACKAGE\_CATEGORIES PACKAGE\_CATEGORIES ON PACKAGE\_CATEGORIES.packagecategory\_id=PACK.packagecategory\_id

LEFT JOIN SITES SITES ON SITES.site\_id=PACK.site\_id

WHERE PACK.maxuses = 0

AND (customer\_membership\_dates.effective\_date<={d '2014-08-31'}

AND customer\_membership\_dates.expiration\_date>{d '2014-08-31'}

AND (termination\_date = {ts '1899-12-30 00:00:00'}

OR termination\_date >= {d '2014-08-31'}))

AND CUST.customer\_id= CUSTOMERS.customer\_id

AND PACK.package\_id= PACKAGES.package\_id) = 0 THEN '0'

ELSE '1'

END) AS retained

FROM CUSTOMER\_MEMBERSHIP\_DATES "CUSTOMER\_MEMBERSHIP\_DATES"

RIGHT JOIN CUSTOMERS CUSTOMERS ON CUSTOMER\_MEMBERSHIP\_DATES.customer\_id=CUSTOMERS.customer\_id

JOIN MEMBERSHIPS MEMBERSHIPS ON CUSTOMER\_MEMBERSHIP\_DATES.membership\_id=MEMBERSHIPS.membership\_id

JOIN PACKAGES PACKAGES ON CUSTOMER\_MEMBERSHIP\_DATES.package\_id=PACKAGES.package\_id

LEFT JOIN PACKAGE\_CATEGORIES PACKAGE\_CATEGORIES ON PACKAGE\_CATEGORIES.packagecategory\_id=PACKAGES.packagecategory\_id

LEFT JOIN SITES SITES ON SITES.site\_id=PACKAGES.site\_id

LEFT JOIN AGE\_CATEGORIES AGE\_CATEGORIES ON CUSTOMERS.AGE\_CATEGORY\_ID=AGE\_CATEGORIES.AGE\_CATEGORY\_ID

WHERE (customer\_membership\_dates.effective\_date<={d '2014-08-01'}

AND customer\_membership\_dates.expiration\_date>{d '2014-08-01'}

AND (termination\_date = {ts '1899-12-30 00:00:00'}

OR termination\_date >= {d '2014-08-01'}))

AND PACKAGES.maxuses = 0

ORDER BY sitename,

categoryname,

packagename

## SQL of Count entire membership as one single unit (1)

SELECT CUSTOMERS.customer\_id AS customer\_id,

PACKAGES.packagename AS packagename,

PACKAGES.package\_id AS package\_id,

SITES.site\_id AS site\_id,

SITES.sitename AS sitename,

PACKAGE\_CATEGORIES.categoryname AS categoryname,

PACKAGE\_CATEGORIES.packagecategory\_id AS packagecategory\_id,

(CASE

WHEN

(SELECT count(CUST.customer\_id) AS c

FROM CUSTOMER\_MEMBERSHIP\_DATES "CUSTOMER\_MEMBERSHIP\_DATES"

RIGHT JOIN CUSTOMERS CUST ON CUSTOMER\_MEMBERSHIP\_DATES.customer\_id=CUST.customer\_id

JOIN MEMBERSHIPS MEMBERSHIPS ON CUSTOMER\_MEMBERSHIP\_DATES.membership\_id=MEMBERSHIPS.membership\_id

JOIN PACKAGES PACK ON CUSTOMER\_MEMBERSHIP\_DATES.package\_id=PACK.package\_id

LEFT JOIN PACKAGE\_CATEGORIES PACKAGE\_CATEGORIES ON PACKAGE\_CATEGORIES.packagecategory\_id=PACK.packagecategory\_id

LEFT JOIN SITES SITES ON SITES.site\_id=PACK.site\_id

JOIN CUSTOMERS PMCUST ON MEMBERSHIPS.PrimaryMemberCustomer\_ID=PMCUST.Customer\_ID

WHERE PACK.maxuses = 0

AND (customer\_membership\_dates.effective\_date<={d '2014-08-31'}

AND customer\_membership\_dates.expiration\_date>{d '2014-08-31'}

AND (termination\_date = {ts '1899-12-30 00:00:00'}

OR termination\_date >= {d '2014-08-31'}))

AND CUST.customer\_id= CUSTOMERS.customer\_id

AND PACK.package\_id= PACKAGES.package\_id) = 0 THEN '0'

ELSE '1'

END) AS retained

FROM CUSTOMER\_MEMBERSHIP\_DATES "CUSTOMER\_MEMBERSHIP\_DATES"

RIGHT JOIN CUSTOMERS CUSTOMERS ON CUSTOMER\_MEMBERSHIP\_DATES.customer\_id=CUSTOMERS.customer\_id

JOIN MEMBERSHIPS MEMBERSHIPS ON CUSTOMER\_MEMBERSHIP\_DATES.membership\_id=MEMBERSHIPS.membership\_id

JOIN PACKAGES PACKAGES ON CUSTOMER\_MEMBERSHIP\_DATES.package\_id=PACKAGES.package\_id

LEFT JOIN PACKAGE\_CATEGORIES PACKAGE\_CATEGORIES ON PACKAGE\_CATEGORIES.packagecategory\_id=PACKAGES.packagecategory\_id

LEFT JOIN SITES SITES ON SITES.site\_id=PACKAGES.site\_id

LEFT JOIN AGE\_CATEGORIES AGE\_CATEGORIES ON CUSTOMERS.AGE\_CATEGORY\_ID=AGE\_CATEGORIES.AGE\_CATEGORY\_ID

WHERE (customer\_membership\_dates.effective\_date<={d '2014-08-01'}

AND customer\_membership\_dates.expiration\_date>{d '2014-08-01'}

AND (termination\_date = {ts '1899-12-30 00:00:00'}

OR termination\_date >= {d '2014-08-01'}))

AND CUSTOMER\_MEMBERSHIP\_DATES.customer\_id = MEMBERSHIPS.primarymembercustomer\_id

AND PACKAGES.maxuses = 0

ORDER BY sitename,

categoryname,

packagename