ADB Schema Description

Function 1：

show the ratio of Home customers and Business customers (registered in our system)

show the ratio of Home customers and Business customers (made order in our system)

the list of Home customers that made order in our system

the list of Business customers that made order in our system

ADB schema:

Homec\_Dimension

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| cid | Int(11) | Not null |
| Fname | Varchar(45) | Not null |
| Lname | Varchar(45) | Not null |
| Nname | Varchar(45) | Not null |
| Gender | Varchar(20) | Not null |
| age | Int(11) | Not null |
| income | Int(11) | Not null |
| marriage\_status | Varchar(20) | Not null |

Businessc\_dimension

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| cid | Int(11) | Not null |
| Cname | Varchar(45) | Not null |
| Annual\_income | Int(11) | Not null |
| Business\_category | Varchar(45) | Not null |

Homec\_count (made order)

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| count | Int(11) | Not null |

Businessc\_count (made order)

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| count | Int(11) | Not null |

Homec\_count\_r (registered)

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| count | Int(11) | Not null |

Businessc\_count\_r (registered)

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| count | Int(11) | Not null |

Function 2：

Show the total sales volume for all products

Show the total sales volume for different brands

ADB schema:

Total\_sales

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| sales | Int(11) | Not null |

Brand\_sales

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| brand | varchar(45) | Not null |
| sales | Int(11) | Not null |

Function 3：

Show the sales volume for different brands on each

ADB schema:

brand\_date\_sales

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| brand | varchar(45) | Not null |
| year | Int(11) | Not null |
| month | Int(11) | Not null |
| day | Int(11) | Not null |
| sales | Int(11) | Not null |

Function 4：

Show the top 5 sales for different products on given date

Show the bottom 5 sales for different products on given date

top5

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| Pname | varchar(45) | Not null |
| year | Int(11) | Not null |
| month | Int(11) | Not null |
| day | Int(11) | Not null |
| sales | Int(11) | Not null |

bottom5

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| Pname | varchar(45) | Not null |
| year | Int(11) | Not null |
| month | Int(11) | Not null |
| day | Int(11) | Not null |
| sales | Int(11) | Not null |

Function 5：

Show the top 2 Business customer categories on given date.

Show the best sales brand on given date

ADB schema:

Bcategory\_date\_sales

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| Bcategory | varchar(45) | Not null |
| year | Int(11) | Not null |
| month | Int(11) | Not null |
| day | Int(11) | Not null |
| sales | Int(11) | Not null |

brand\_date\_sales

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| brand | varchar(45) | Not null |
| year | Int(11) | Not null |
| month | Int(11) | Not null |
| day | Int(11) | Not null |
| sales | Int(11) | Not null |

Function 6：

Show the business category for given product order by desc

ADB schema:

Pname\_Bcategory\_sales

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| Pname | varchar(45) | Not null |
| Bcategory | Varchar(45) | Not null |
| sales | Int(11) | Not null |

Function 7：

Show the demand curve for given product

ADB schema:

Pname\_price\_sales

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| Pname | varchar(45) | Not null |
| price | float | Not null |
| sales | Int(11) | Not null |

Function 8

Show the list of home customers and business customers that brought the given product more than 2 times for given month

ADB schema:

Pname\_Cname\_sales

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| Pname | varchar(45) | Not null |
| Cname | varchar(45) | Not null |
| year | Int(11) | Not null |
| month | Int(11) | Not null |
| sales | Int(11) | Not null |

Pname\_Nname\_sales

|  |  |  |
| --- | --- | --- |
| Column | Type | Constrain |
| Pname | varchar(45) | Not null |
| Nname | varchar(45) | Not null |
| year | Int(11) | Not null |
| month | Int(11) | Not null |
| sales | Int(11) | Not null |