## Creating a small Web Data Façade for existing database structure

This exercise demonstrates how to create a Web Data Façade to expose an existing mini database designed to maintain contact information and the contact history of entities interacting with a company.

This application will be provide a web interface to "Create", "Read", "Update", "Delete" (Acronym med "CRUD") and search capability of Contacts. Also it'll provide a way to manage contact history for each contact, which will include to add a new contact event, update existing contact event and so on. Additionally, to demonstrate lookup capabilities and Tree Views, for each contact events, you will be able to assign a "Contact reason", which is picked from a separate table maintained via another page.

Following shows the Entity Relationship model for this mini application.



Note:

Make sure you are logged in as an "Administrator".

For your convenience a several tables are pre-created in the DemoDB data source shipped with the product. In order to check the table structure select Config->InitialSetup->Datasources from the tree menu (on the left hand side) and then pick "DemoDB" data source from the list. Click the "Meta Data/Test" button on the "Details" panel and the tables of the data source will be listed. You can select any of the tables and click next to see the details of each table.

1. Create the "Application" group.

Select Config->Applications from the main tree menu Applications defined in the Data Façade will be listed. Click "New" button. The "Details" panel will display a new entry window to provide the Name and Description of the Application. Enter "CRM" for the name and provide a meaningful description (say "Demo CRM System"), and Click "Insert" button.



 The newly added "CRM" application will be listed. If the "Details" panel is not open, click the "CRM" link to open it. Then Click "DBObjects" link to open the list of DBObjects. A New window will be open with the empty list. Click "New" to create a new DBObject. 3. Provide the Properties for the "CRM\_CONTACTS" DBObject listed as follows (Properties are grouped in each tab) and click "Insert" button.

| General Info.             |                         |     |
|---------------------------|-------------------------|-----|
| DBO Name                  | CRM_CONTACTS            |     |
| Description               | Contacts                |     |
| Primary Table *           | CRM_CONTACTS            |     |
| Connection Name *         | DemoDB                  |     |
| Date Format               | vvvv-MM-dd              |     |
| Page Size                 | ,,,,,                   | 05  |
| Kevs                      | CONTACT ID              | 25  |
| Sort Columns              | CONTACT_ID              |     |
| Children DR Objecto       | LAST_NAME FIRST_NAME MI |     |
| Children DB Objects       | CRM_CON_HISTORY         |     |
| Insertable                | V                       |     |
| Deletable                 |                         |     |
| Cascade Delete            |                         |     |
| Clanable                  | _                       |     |
| Cionable<br>Drint Droviow |                         |     |
| <u>FIIII FIEVIEW</u>      | ×                       |     |
|                           |                         |     |
| Prog.Events               |                         |     |
| <u>onLoad</u>             |                         |     |
| <u>onSave</u>             |                         |     |
| <u>onDelete</u>           |                         |     |
|                           |                         |     |
| Visuals                   |                         |     |
| Children display mode *   | Cascade                 |     |
| Record display mode *     |                         |     |
| Record search mode *      | Browse                  |     |
| Height                    | Diowse                  | 600 |
| Detail Panel Height       |                         | 400 |
| Detail Panel Width        |                         | 500 |
| List Panel Width          |                         | 800 |
| Window Height             |                         | 400 |
| Menu Path                 | Contacts/Managa         |     |
| Icon                      | Contacts/Ivianage       |     |
| Help File                 |                         |     |
| App. Group *              | CRM                     |     |
| Service Request           | UTAWI .                 |     |
| Name                      |                         |     |
|                           |                         |     |
| Security                  |                         |     |
| Roles                     | Admin                   |     |
|                           | CRMUsers                |     |

4. Click "Columns" link in the newly created CRM\_CONTACTS DBObject. List of columns will be displayed. You can modify the properties of each column by selecting one at a time. Modify them as shown in the table below.

| NAME_PREFIX        |                  |
|--------------------|------------------|
| Description        | Salutation       |
| SQL Type           | String           |
| Lookup             | Enum             |
| Default Expression |                  |
| Format             |                  |
| Validator          |                  |
| Enumeration        | Mr Ms Dr DR Rev. |
| Foreign Key        |                  |
| Listable           |                  |
| Viewable           |                  |
| Editable           |                  |
| Nullable           |                  |
| Filterable         |                  |
| Group              |                  |
| Display Order      | 0                |
| Remarks/Tooltips   |                  |
| LAST_NAME          |                  |
| Description        | Last Name        |
| SQL Type           | String           |
| Lookup             |                  |
| Default Expression |                  |
| Format             | x:40             |
| Validator          |                  |
| Enumeration        |                  |
| Foreign Key        |                  |
| Listable           |                  |
| Viewable           |                  |
| Editable           |                  |
| Nullable           |                  |
| Filterable         |                  |
| Group              |                  |
| Display Order      | 1                |
| Remarks/Tooltips   |                  |

| FIRST_NAME |                    |  |   |
|------------|--------------------|--|---|
|            | Description        | First Name   |   |
|            | SQL Type           | String   |   |
|            | Lookup             |  |   |
|            | Default Expression |  |   |
|            | Format             | x:40   |   |
|            |                    | if (valueOf('FIRST_NAME').length<2){            alert('Too |   |
|            | Validator          | Small'); return false;}else{ return true;}                 |   |
|            | Enumeration        |  |   |
|            | Foreign Key        |  |   |
|            | Listable           |  |   |
|            | Viewable           |  |   |
|            | Editable           |  |   |
|            | Nullable           |  |   |
|            | Filterable         |  |   |
|            | Group              |  | _ |
|            | Display Order      |  | 2 |
|            | Remarks/Tooltips   |  |   |
| MI         |                    |  |   |
|            | Description        | MI   |   |
|            | SQL Type           | String   |   |
|            | Lookup             |  |   |
|            | Default Expression |  |   |
|            | Format             | x:1  |   |
|            | Validator          |  |   |
|            | Enumeration        |  |   |
|            | Foreign Key        |  |   |
|            | Listable           |  |   |
|            | Viewable           |  |   |
|            | Editable           |  |   |
|            | Nullable           |  |   |
|            | Filterable         |  |   |
|            | Group              |  |   |
|            | Display Order      |  | 3 |
|            | Remarks/Tooltips   |  |   |
|            |                    |  |   |

| NAME_SUFFI | X   |                  |   |
|------------|---|------------------|---|
|            | Description                                 | Suffix           |   |
|            | SQL Type                                    | String           |   |
|            | Lookup                                      | Enum             |   |
|            | Default Expression                          |                  |   |
|            | Format                                      |                  |   |
|            | Validator                                   |                  |   |
|            | Enumeration                                 | NA Jr. II III IV |   |
|            | Foreign Key                                 |                  |   |
|            | Listable                                    |                  |   |
|            | Viewable                                    |                  |   |
|            | Editable                                    |                  |   |
|            | Nullable                                    |                  |   |
|            | Filterable                                  |                  |   |
|            | Group                                       |                  |   |
|            | Display Order                               |                  | 4 |
|            | Remarks/Tooltips                            |                  |   |
|            |   |                  |   |
| ENTITY_TYP | Ε   |                  |   |
|            | Description                                 | Туре             |   |
|            | SQL Type                                    | String           |   |
|            | Lookup                                      | Enum             |   |
|            | Default Expression                          |                  |   |
|            | Format                                      |                  |   |
|            | Validator                                   |                  |   |
|            | Enumeration                                 | Person Business  |   |
|            | Foreign Key                                 |                  |   |
|            | Listable                                    |                  |   |
|            | Viewable                                    |                  |   |
|            | Editable                                    |                  |   |
|            | Nullable                                    |                  |   |
|            | Filterable                                  |                  |   |
|            | Group                                       |                  |   |
|            | Display Order                               |                  | 6 |
|            | Horizontal Position                         |                  | 0 |
|            | Packing Policy<br>Dynamic Column<br>Factory | Default          |   |
|            | Remarks/Tooltips                            |                  |   |
|            |   |                  |   |

| REL_TYPE   |                            |                                    |    |
|------------|----------------------------|------------------------------------|----|
| _          | Description                | Pelationshin                       |    |
|            |                            | String                             |    |
|            | Jookun                     | Fnum                               |    |
|            | Dofault Expression         |                                    |    |
|            |                            |                                    |    |
|            | Validator                  |                                    |    |
|            | Faumoration                | Customer II eadlEmployee Associate |    |
|            | Enumeration<br>Foreign Koy | Customer [Lead]Linployee[Associate |    |
|            | Listable                   |                                    |    |
|            | Viewable                   |                                    |    |
|            | Editable                   |                                    |    |
|            | Nullable                   |                                    |    |
|            | Filterable                 |                                    |    |
|            | Group                      |                                    |    |
|            | Display Order              |                                    | 7  |
|            | Remarks/Tooltins           |                                    |    |
|            |                            |                                    |    |
| ADDRESS_ST | REET                       |                                    |    |
|            | Description                | Street                             |    |
|            | SOL Type                   | String                             |    |
|            | Lookup                     |                                    |    |
|            | Default Expression         |                                    |    |
|            | Format                     | x:40                               |    |
|            | Validator                  |                                    |    |
|            | Enumeration                |                                    |    |
|            | Foreign Key                |                                    |    |
|            | Listable                   |                                    |    |
|            | Viewable                   |                                    |    |
|            | Luitable                   |                                    |    |
|            |                            |                                    |    |
|            | Filterable                 | Address                            |    |
|            | Group                      | Audiess                            |    |
|            | Display Order              |                                    | 10 |
|            | Remarks/Tooltips           |                                    |    |
| 1          |                            |                                    |    |

|            | IDEET?             |         |    |
|------------|--------------------|---------|----|
| ADDRESS_SI | IREE12             |         |    |
|            | Description        |         |    |
|            |                    | String  |    |
|            | SQL Type           | String  |    |
|            | LOOKUP             |         |    |
|            | Default Expression |         |    |
|            | Format             | x:40    |    |
|            | Validator          |         |    |
|            | Enumeration        |         |    |
|            | Foreign Key        |         |    |
|            | Listable           |         |    |
|            | Viewable           |         |    |
|            | Editable           |         |    |
|            | Nullable           |         |    |
|            | Filterable         |         |    |
|            | Group              | Address |    |
|            | Display Order      |         | 11 |
|            | Remarks/Tooltips   |         |    |
|            |                    |         |    |
| ADDRESS_CI | <b>ΙΤΥ</b>         |         |    |
|            | Description        | City    |    |
|            | SOL Type           | String  |    |
|            |                    |         |    |
|            | Default Expression |         |    |
|            | Format             | x:40    |    |
|            | Validator          |         |    |
|            | Enumeration        |         |    |
|            | Foreign Key        |         |    |
|            | Listable           |         |    |
|            | Viewable           |         |    |
|            | Editable           |         |    |
|            | Nullable           |         |    |
|            | Filterable         |         |    |
|            | Group              | Address |    |
|            | Display Order      |         | 12 |
|            | Domarks/Tealting   |         | _  |
|            | Remarks/ 100itips  |         |    |
|            |                    |         |    |

| ADDRESS_S1 | TATE  |                   |    |
|------------|---|-------------------|----|
|            | Description<br>SQL Type<br>Lookup   | State<br>String   |    |
|            | Default Expression<br>Format<br>Validator<br>Enumeration                  | x:2               |    |
|            | Foreign Key<br>Listable<br>Viewable<br>Editable<br>Nullable<br>Filterable |                   |    |
|            | Group   | Address           |    |
|            | Display Order   |                   | 13 |
|            | Remarks/Tooltips  |                   |    |
| ADDRESS 71 |   |                   |    |
| ADDRESS_21 | .P  |                   |    |
|            | Description<br>SQL Type<br>Lookup   | Zip<br>String     |    |
|            | Default Expression<br>Format<br>Validator<br>Enumeration<br>Foreign Key   | x:5               |    |
|            | Listable<br>Viewable<br>Editable<br>Nullable<br>Filterable<br>Group       | ☐<br>☑<br>Address |    |
|            | Display Order<br>Remarks/Tooltips   |                   | 15 |

| PHONE_DAY |   |                            |     |
|-----------|---|----------------------------|-----|
|           | Description<br>SQL Type<br>Lookup   | Phone (Day Time)<br>String |     |
|           | Default Expression<br>Format<br>Validator<br>Enumeration<br>Foreign Key<br>Listable<br>Viewable<br>Editable<br>Nullable<br>Filterable | <u>र</u><br>र              |     |
|           | Group   | Contacts                   | 200 |
|           | Display Order   |                            | 300 |
|           | Remarks/Tooltips  |                            |     |
| PHONE_EVE |   |                            |     |
|           | Description<br>SQL Type<br>Lookup   | Phone (Evening)<br>String  |     |
|           | Default Expression<br>Format<br>Validator<br>Enumeration  |                            |     |
|           | Foreign Key<br>Listable<br>Viewable<br>Editable<br>Nullable<br>Filterable   | 지 고<br>고<br>고              |     |
|           | Group   | Contacts                   |     |
|           | Display Order   |                            | 301 |
|           | Remarks/Tooltips  |                            |     |

| PHONE_CELL |   |                        |          |
|------------|---|------------------------|----------|
|            | Description<br>SQL Type<br>Lookup   | Phone (Cell)<br>String |          |
|            | Default Expression<br>Format<br>Validator<br>Enumeration<br>Foreign Key<br>Listable<br>Viewable<br>Editable<br>Nullable<br>Filterable   |                        |          |
|            | Group   | Contacts               |          |
|            | Display Order   |                        | 303      |
|            | Horizontal Position   |                        | 0        |
|            | Packing Policy<br>Dynamic Column<br>Factory   | Default                |          |
|            | Remarks/Tooltips  |                        |          |
| FAX        |   |                        |          |
|            | Description<br>SQL Type<br>Lookup   | Fax<br>String          |          |
|            | Default Expression<br>Format<br>Validator<br>Enumeration<br>Foreign Key<br>Listable<br>Viewable<br>Editable<br>Nullable<br>Filterable<br>Group<br>Display Order<br>Horizontal Position<br>Packing Policy<br>Dynamic Column<br>Factory<br>Remarks/Tooltips | Contacts<br>Default    | 305<br>0 |

|           | Description<br>SQL Type   | EMail<br>String     |      |
|-----------|---|---------------------|------|
|           | Lookup  |                     |      |
|           | Default Expression  |                     |      |
|           | Format  |                     |      |
|           | Validator   |                     |      |
|           | Enumeration   |                     |      |
|           | Foreign Key   | -                   |      |
|           | Listable  |                     |      |
|           | Fditable  |                     |      |
|           | Nullable  |                     |      |
|           | Filterable  |                     |      |
|           | Group   | Contacts            |      |
|           | Display Order   |                     | 306  |
|           |   |                     | 500  |
|           | Remarks/Tooltips  |                     |      |
| CONTACT_I | D   |                     |      |
|           | Description   | CONTACT ID          |      |
|           |   |                     |      |
|           | SQL Type  | String              |      |
|           | SQL Type<br>Lookup  | String              |      |
|           | SQL Type<br>Lookup<br>Default Expression  | String<br>UniqueKey |      |
|           | SQL Type<br>Lookup<br>Default Expression<br>Format  | String<br>UniqueKey |      |
|           | SQL Type<br>Lookup<br>Default Expression<br>Format<br>Validator   | String<br>UniqueKey |      |
|           | SQL Type<br>Lookup<br>Default Expression<br>Format<br>Validator<br>Enumeration  | String<br>UniqueKey |      |
|           | SQL Type<br>Lookup<br>Default Expression<br>Format<br>Validator<br>Enumeration<br>Foreign Key   | String<br>UniqueKey |      |
|           | SQL Type<br>Lookup<br>Default Expression<br>Format<br>Validator<br>Enumeration<br>Foreign Key<br>Listable   | String<br>UniqueKey |      |
|           | SQL Type<br>Lookup<br>Default Expression<br>Format<br>Validator<br>Enumeration<br>Foreign Key<br>Listable<br>Viewable   | String<br>UniqueKey |      |
|           | SQL Type<br>Lookup<br>Default Expression<br>Format<br>Validator<br>Enumeration<br>Foreign Key<br>Listable<br>Viewable<br>Editable   | String<br>UniqueKey |      |
|           | SQL Type<br>Lookup<br>Default Expression<br>Format<br>Validator<br>Enumeration<br>Foreign Key<br>Listable<br>Viewable<br>Editable<br>Nullable   | String<br>UniqueKey |      |
|           | SQL Type<br>Lookup<br>Default Expression<br>Format<br>Validator<br>Enumeration<br>Foreign Key<br>Listable<br>Viewable<br>Editable<br>Nullable<br>Filterable   | String<br>UniqueKey |      |
|           | SQL Type<br>Lookup<br>Default Expression<br>Format<br>Validator<br>Enumeration<br>Foreign Key<br>Listable<br>Viewable<br>Editable<br>Nullable<br>Filterable<br>Group                                      | String<br>UniqueKey |      |
|           | SQL Type<br>Lookup<br>Default Expression<br>Format<br>Validator<br>Enumeration<br>Foreign Key<br>Listable<br>Viewable<br>Editable<br>Nullable<br>Filterable<br>Group<br>Display Order                     | String<br>UniqueKey | 9999 |
|           | SQL Type<br>Lookup<br>Default Expression<br>Format<br>Validator<br>Enumeration<br>Foreign Key<br>Listable<br>Viewable<br>Editable<br>Nullable<br>Filterable<br>Group<br>Display Order<br>Remarks/Tooltips | String<br>UniqueKey | 9999 |

5. Repeat the same process for CRM\_CON\_HISTORY using the following parameter.

| General Info.           |                    |     |
|-------------------------|--------------------|-----|
| DBO Name                | CRM_CON_HISTORY    |     |
| Description             | History            |     |
| Primary Table *         |                    |     |
| Connection Name *       | CRM_CONTACT_HISTRY |     |
|                         | DemoDB             |     |
| Date Format             |                    |     |
| Page Size               | уууу-мм-аа         |     |
| Tage Size               |                    | 25  |
| <u>Keys</u>             | CONTACT_ID REF_NO  |     |
| <u>Sort Columns</u>     | TIME STMP DESC     |     |
| Children DB Objects     |                    |     |
| Insertable              |                    |     |
| Deletable               |                    |     |
| Cascade Delete          |                    |     |
|                         |                    |     |
| <u>Cionable</u>         |                    |     |
| Print Preview           |                    |     |
|                         |                    |     |
| Prog Events             |                    |     |
| onLoad                  |                    |     |
| onSave                  |                    |     |
| onDelete                |                    |     |
|                         |                    |     |
| Visuale                 |                    |     |
| Children display mode * | Inline Denlin      |     |
| Record display mode *   | пше-горор          |     |
| Pacard soarch made *    | InLine             |     |
| Height                  | Browse             |     |
| Detail Danal Height     |                    | 400 |
| Detail Panel Height     |                    | 270 |
| Detail Panel Width      |                    | 370 |
|                         |                    | 500 |
| List Panel Width        |                    |     |
|                         |                    | 600 |
| Window Height           |                    | 450 |
| Menu Path               |                    | -00 |
|                         |                    |     |

Icon Help File App. Group \* Service Request

CRM

6. Click "Columns" link in the newly created CRM\_CON\_HISTORY DBObject. List of columns will be displayed. You can modify the properties of each column by selecting one at a time. Modify them as shown in the table below.

| TIME_S | ГМР             |  |    |
|--------|-----------------|--|----|
| Desc   | ription         | Time Stamp   |    |
| SQL    | Туре            | TimeStamp  |    |
| Defa   | ult Expression  | TimeStamn  |    |
| Eorm   | ult LXPI CSSION | MM/dd/w/HH·mm  |    |
| FUIT   | lat             | if   |    |
|        |                 | <br>(Date.parse(document.forms[0].elements['TIME_STMP']. | .v |
|        |                 | alue).after(new Date())){alert('Date cannot be in the    |    |
| Valic  | lator           | future');return false;}else{return true;}                |    |
| Enur   | neration        |  |    |
| Fore   | ign Key         |  |    |
| Lista  | ble             |  |    |
| View   | able            |  |    |
| Edita  | able            |  |    |
| Nulla  | able            |  |    |
| Filter | radie           | 1  |    |
| Diam   | ih<br>I         |  | 1  |
| Disp   | lay Order       |  | T  |
| Rem    | arks/Tooltips   |  |    |
| REASON | _CODE           |  |    |
|        |                 |  |    |
| Desc   | ription         | Reason   |    |
| SQL    | Туре            | String   |    |
|        |                 | SQL::DemoDB::SELECT REASON_CODE,REASON FROM              |    |
| Look   | up              | CRM_REASON_CODES ORDER BY REASON                         |    |
| Defa   | ult Expression  |  |    |
| Form   | nat             |  |    |
| Valic  | lator           |  |    |
| Enur   | neration        |  |    |
| Fore   | ign Key         | _  |    |
| Lista  | ble             |  |    |
| View   |                 |  |    |
| Nulla  | able            |  |    |
| Filter | rable           |  |    |
| Grou   | ip              |  |    |
| Disp   | lav Order       |  | 2  |
| Rem    | arks/Tooltins   |  |    |
|        |                 |  |    |

| DESCRIPTION  |   |
|--|---|
| Description<br>SQL Type<br>Lookup  | Description<br>String   |
| Default Expression<br>Format   | x:60X5<br>if  |
| Validator<br>Enumeration<br>Foreign Key<br>Listable<br>Viewable<br>Editable        | <pre>(document.forms[0].elements['DESCRIPTION'].value.lengt<br/>h&lt;5){alert('Too Small');return false;}else{return true;}</pre> |
| Nullable<br>Filterable<br>Group<br>Display Order                                   | 3   |
| Remarks/Tooltips   |   |
| STATUS<br>Description<br>SQL Type<br>Lookup<br>Default Expression<br>Format        | Status<br>String<br>Enum  |
| Enumeration  | Open Assigned Closed  |
| Foreign Key<br>Listable<br>Viewable<br>Editable<br>Nullable<br>Filterable<br>Group |   |
| Display Order<br>Remarks/Tooltips  | 4   |

| ASSIGN_TO               |   |
|-------------------------|---|
| Description<br>SQL Type | AssignTo<br>String  |
| Lookup                  | SQL::DemoDB::SELECT<br>CONTACT_ID,LAST_NAME  ','  FIRST_NAME  ' '  MI FROM<br>CRM_CONTACTS WHERE REL_TYPE='Employee' ORDER BY<br>LAST_NAME.FIRST_NAME |
| Default Expression      |   |
| Format                  |   |
| Validator               |   |
| Enumeration             |   |
| Foreign Key             | _   |
| Listable                |   |
| Viewable                |   |
| Nullable                |   |
| Filterable              |   |
| Group                   |   |
| Display Order           | 9999  |
| Remarks/Tooltips        |   |
| REF NO                  |   |
| –<br>Description        | REF NO  |
| SQL Type                | String  |
| Lookup                  |   |
| Default Expression      | UniqueKey   |
| Format                  |   |
| Validator               |   |
| Enumeration             |   |
| Foreign Key             | _   |
| Listable                |   |
| Viewabie                |   |
| Nullable                |   |
| Filterable              |   |
| Group                   |   |
| Display Order           | 9999  |
| Remarks/Tooltips        |   |
|                         |   |

| CONTACT_ID     |            |
|----------------|------------|
| Description    | CONTACT_ID |
| SQL Type       | String     |
| Lookup         |            |
| Default Expres | ssion      |
| Format         |            |
| Validator      |            |
| Enumeration    |            |
| Foreign Key    | CONTACT_ID |
| Listable       |            |
| Viewable       |            |
| Editable       |            |
| Nullable       |            |
| Filterable     |            |
| Group          |            |
| Display Order  |            |
| Remarks/Tool   | tips       |
|                |            |

## 7. Repeat the same process for CRM\_REASON\_CODES using the following parameter.

| General Info.   |   |                   |
|---|---|-------------------|
| General Info.   DBO Name   Description   Connection Name *   Primary Table *   Date Format   Page Size   Keys   Sort Columns   Children DB Objects   Insertable | CRM_REASON_CODES<br>Reason Codes<br>DemoDB<br>CRM_REASON_CODES<br>yyyy-MM-dd<br>REASON_CODE<br>REASON | 25                |
| <u>Deletable</u><br><u>Cascade Delete</u><br><u>Clonable</u><br><u>Print Preview</u>  |   |                   |
| onLoad<br>onSave<br>onDelete  |   |                   |
| Visuals   |   |                   |
| Children display mode *   | Cascade   |                   |
| Record display mode *<br>Record search mode *   | InLine  |                   |
| Height<br>Detail Panel Height<br>Detail Panel Width   | neeview   | 500<br>320        |
| List Panel Width<br><u>Window Height</u><br><u>Menu Path</u><br><u>Icon</u><br><u>Help File</u><br><u>App. Group *</u>  | Contact Reasons   | 500<br>600<br>400 |
|   | CRM   |                   |

## Security Roles

8. Click "Columns" link in the newly created CRM\_REASON\_CODES DBObject. List of columns will be displayed. You can modify the properties of each column by selecting one at a time. Modify them as shown in the table below.

9. Close the browser window opened to create DBObjects. In the main Browser window, click the refresh button. The new menu entries will appear in the main tree menu and you can click them to add/view data.