1	terface Mapping Services (IMS), v	whose main purpose i	is to	

ODMG specifies se

- class, attribute or method renaming,
- interface attribute or method mapping to an OQL construct.
- interface attribute or method mapping to a C++ construct.
- addition of attributes or methods in a target interface.

In this case, as shown in Figure 1, the starting point is:

- 1. a database schema,
- 2. hints about the view to be built expressed as an IMDL construct.

the result is:

- 1. a generated IDL,
- 2. a full or partial CORBA implementation.

2.4.3 Target View driven CORBA views

In this case, the target view is given a

```
Person::cstate . Person::children and Address::street . This means that the previously shown IDL interfaces becomes:

interface Address {
   attribute string town;
};
```

interface 9.R25 9.962 (the)64w380.63 Tf-101.991 -10399 Td (attribute)Tj 53.8024 0 Td (string)Tj 37.50name Td (t91.31 Tf-

from // the get OQL construct: %oql{ select x from Person

This generated IDL calls for a few remarks:

- 1. as previously introduced, the generated IDL includes by default the file eyedb.idl which contains the generic interface of EYEDB. Each generated interface inherits directly or indirectly from the EyeDB _ORB::idbObject interface.
- 2. by default, an interface factory is generated which contains a few methods for each generated interface:
 - (a) the method Address
 AddressQueryFirst(db,
 query) returns the first Address instance
 which matches the input OQL query argument.
 - (b) the method AddressList
 AddressQuery(db,
 query) returns all the instances of Address
 which matches the input OQL query argument.
 - (c) the method Address asAddress(

 EyeDB _ORB::idbObject o) builds an Address instance from a generic idbObject instance if and only if the generic instance is of dynanic type Address . Otherwise a null object is returned.
 - (d) the method Address AddressCreate(db) creates an empty runtime Address instance.

4.2.3 Using the generated CORBA view

To use the CORBA view, the user must:

- 1. generate the CORBA view by giving the database schema and the IMDL construct to the IMS compiler.
- 2. generate the CORBA stubs and skeleton by giving the generated IDL to the ORB IDL compiler,
- 3. compile all the generated code,
- 4. write and compile the client programs.

Here is a simple example of a client program to get, display and update all the instances of the class ${\tt Employee}$:

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