PROBLEM 2 ANSWER:

```
3CREATE TABLE xml_clients (
    CIDNO SMALLINT PRIMARY KEY NOT NULL,
    NAME VARCHAR(30) NOT NULL,
    ADDRESS XML NOT NULL,
    STATUS VARCHAR(10) NULL,
    CONTACTINFO XML NOT NULL
);

CONTACTINFO XML NOT NULL
);
```

PROBLEM 3 ANSWER:

```
|INSERT INTO xml_clients (CIDNO, NAME, ADDRESS, STATUS, CONTACTINFO)
 (1, 'Beatriz Teofilo'
           '<Address><Street>Sanciangco Street</Street><City>Cebu City</City><Zip>6000</Zip></Address>',
           'Married'.
           '<Contact><Phone>09171234567</Phone><Email>beatriz@email.com</Email></Contact>'),
 (2, 'Arlan Cardosa'
            <Address><Street>Sanciangco Street</Street><City>Cebu City</City><Zip>6000</Zip></Address>',
           'Single',
           '<Contact><Phone>09181234567</Phone><Email>arlan@email.com</Email></Contact>'),
 (3, 'Pedro Cruz'
            <Address><Street>789 Rizal Blvd</Street><City>Lapu-Lapu City</City><Zip>6015</Zip></Address>',
         NULL
           '<Contact><Phone>09221234567</Phone><Email>pedro.cruz@email.com</Email></Contact>');
INSERT INTO xml_employee (EMPNO, NAME, ADDRESS, JOB, CONTACTINFO, CIDNO)
 (101, 'Maria Alexa De Luna', 'Capitol',
            .

<
           '<Contact><Phone>09981234567</Phone><Email>mariaalexa@gmail.com</Email></Contact>',
         1),
 \verb|'<Contact><Phone>09991234567</Phone><Email>mariannemae@gmail.com</Email></Contact>', and the contact is a substitute of 
 (103, 'Shekainah Gaceta', 'Talamban',
    '<Job>Position>Web Developer</Position><Level>MId</Level><Years>6</Years><Department><Name>IT</Name><Head>John Doe</Head></Department></Job>',
           '<Contact><Phone>09201234567</Phone><Email>kaigaceta@gmail.com</Email></Contact>',
 (104, 'Larie Jane Rubi', 'Guadalupe',
           '<Job><Position>UI Designer</Position><Level>Mid</Level><Years>&</Years><Department></Name>IT</Name><Head>John Doe</Head></Department></Job>',
'<Contact><Phone>09081234567</Phone><Email>heartrubi@gmail.com</Email></Contact>',
           '<Job><Position>System Admin</Position><Level>Mid</Level>Years>10</Years><Department><Name>IT</Name><Head>John Doe</Head></Department></Job>',
'<Contact><Phone>09121234567</Phone><Email>cedcedcornelio@gmail.com</Email></Contact>',
         3):
 DELETE FROM xml_employee
. .
```

PROBLEM 4 ANSWER:

```
ESELECT

EMPNO,

NAME,

JOB.value('(/Job/Position)[1]', 'VARCHAR(30)') AS Position

FROM

xm1_employee

WHERE

JOB.value('(/Job/Years)[1]', 'INT') > 5;
```

PROBLEM 6 ANSWER:

```
SELECT

EMPNO,

NAME AS EmployeeName,

JOB.value('(/Job/Position)[1]', 'VARCHAR(30)') AS JobPosition,

JOB.value('(/Job/Level)[1]', 'VARCHAR(20)') AS JobLevel,

JOB.value('(/Job/Years)[1]', 'INT') AS YearsServed

FROM

xml_employee;
```

PROBLEM 5 ANSWER:

```
ISELECT
    E.EMPNO,
    E.NAME,
    E.JOB.value('(/Job/Position)[1]', 'VARCHAR(30)') AS JOBPOSITION,
    E.NAME AS CLIENTNAME,
    C.CONTACTINFO
FROM
    xml_employee E
JOIN
    xml_clients C ON E.CIDNO = C.CIDNO;
```

PROBLEM 7 ANSWER:

```
SELECT
CIDNO,
NAME,
ADDRESS.value('(/Address/Street)[1]', 'VARCHAR(50)') AS Street,
ADDRESS.value('(/Address/City)[1]', 'VARCHAR(30)') AS City,
ADDRESS.value('(/Address/Zip)[1]', 'VARCHAR(10)') AS Zip
FROM
xml_clients
WHERE
STATUS = 'Single';
```

PROBLEM 8 ANSWER:

```
SELECT

CIDNO,

NAME,

ADDRESS.value('(/Address/Street)[1]', 'VARCHAR(50)') AS Street,

ADDRESS.value('(/Address/City)[1]', 'VARCHAR(30)') AS City,

ADDRESS.value('(/Address/Zip)[1]', 'VARCHAR(10)') AS Zip,

CONTACTINFO.value('(/Contact/Phone)[1]', 'VARCHAR(15)') AS Phone,
CONTACTINFO.value('(/Contact/Email)[1]', 'VARCHAR(50)') AS Email

FROM

xml_clients;
```

PROBLEM 9 ANSWER:

PROBLEM 10 ANSWER:

PROBLEM 11 ANSWER:

```
SELECT CIDNO, NAME,

CONTACTINFO.query('

<ContactDetails>

<Phone>{./Contact/Phone/text()}</Phone>

<Email>{./Contact/Email/text()}</Email>

</ContactDetails>') AS Contact_Hierarchy

FROM xml_clients;
```

PROBLEM 12 ANSWER:

PROBLEM 13 ANSWER:

PROBLEM 14 ANSWER: