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Questions Answers
9.1.a.
            <Query>
            |-- <SelectList>
            | -- <Field> = a
            |-- <TableList>
            | -- IdTok = x
            |-- WHERE
            | -- < Predicate >
                -- <Term>
                   |-- <Expression> = <Field> = b
                  |-- <Expression> = <Constant> = IntTok = 3
            <Query>
9.1.b.
            |-- <SelectList>
            | |-- <Field> = a
            | |--,
            | |-- <Field> = b
            |-- <TableList>
            | |-- IdTok = x
            | |--,
            | |-- IdTok = y
            | |--,
            | |-- IdTok = z
            <UpdateCmd>
9.1.c.
            |-- <Delete>
            | |-- DELETE FROM
            | |-- IdTok = x
```

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|-- WHERE
             -- <Predicate>
                |-- <Term>
                | |-- <Expression> = <Field> = a
                | |-- <Expression> = <Field> = b
                |-- AND
                |-- <Term>
                   |-- <Expression> = <Field> = c
                   |-- <Expression> = <Constant> = IntTok = 0
           <UpdateCmd>
9.1.d.
           |-- < Modify>
           | |-- UPDATE
           | |-- IdTok = x
            | |-- SET
           | |-- <Field> = a
            | |-- <Expression> = <Field> = b
           | |-- WHERE
            | -- < Predicate >
               -- <Term>
                  |-- <Expression> = <Field> = c
                  |-- <Expression> = <Constant> = IntTok = 3
9.1.e.
           <UpdateCmd>
            |-- <Insert>
            | |-- INSERT INTO
           | |-- IdTok = x
            | |-- (
```

```
|-- <FieldList>
        | |--,
         | |-- <Field> = b
         | |--,
         | |-- <Field> = c
         |-- VALUES
        | |-- (
        | |-- <ConstList>
        | | |-- <Constant> = StrTok = 'glop'
        <UpdateCmd>
9.1.f.
        |-- <Create>
        | |-- <CreateTable>
          |-- CREATE TABLE
           |-- IdTok = x
           |-- (
           |-- <FieldDefs>
           | |-- <FieldDef>
           I I I
           | | |-- <TypeDef> = VARCHAR (IntTok = 3)
           | |-- <FieldDef>
           | |--,
           | |-- <FieldDef>
```

)
9.2.a.	Exception at "select".
	Reason: Missing fields to select.
9.2.b.	Exception at the second "x".
	Reason: Syntax error, looks like an alias without the "AS" keyword.
9.2.c.	Exception at "z".
	Reason: Syntax error, looks like an alias or an additional table without a comma.
9.2.d.	Exception at "where".
	Reason: Missing table name.
9.2.e.	Exception at "-=".
	Reason: Invalid operator. Should be "=".
9.2.f.	Exception at end of string.
	Reason: Incomplete WHERE clause.
9.3.a.	The grammar for <create></create> is:
	<create> := <createtable> <createview> <createindex></createindex></createview></createtable></create>
	This grammar is ambiguous because it does not differentiate between different
	types of creation commands when parsing. A recursive-descent parser, which
	processes the input from left to right, would have difficulty determining which
	rule to follow without looking ahead in the input string.
9.3.b.	Assuming the parser distinguishes the type of creation based on specific
	keywords like TABLE, VIEW, and INDEX, the grammar can be revised as:
	,,
	<create> := CREATE <createtype></createtype></create>
	<pre><createtype> := TABLE <createtabledetails> VIEW <createviewdetails> </createviewdetails></createtabledetails></createtype></pre>
	INDEX <createindexdetails></createindexdetails>
	113 27 Greatering Constitution
	This modified grammar uses the "CREATE" keyword followed by the specific type
	, , , , , , , , , , , , , , , , , , , ,
	This modified grammar uses the "CREATE" keyword followed by the specific type keyword to guide the parser in it decision-making process.