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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 |
| 9.1.b. | <Query>  |  |-- <SelectList>  | |  | |-- <Field> = a  | |-- ,  | |-- <Field> = b  |  |-- <TableList>  | |  | |-- IdTok = x  | |-- ,  | |-- IdTok = y  | |-- ,  | |-- IdTok = z |
| 9.1.c. | <UpdateCmd>  |  |-- <Delete>  | |  | |-- DELETE FROM  | |  | |-- IdTok = x  | |  | |-- WHERE  | |  | -- <Predicate>  | |  | |-- <Term>  | | |  | | |-- <Expression> = <Field> = a  | | |-- =  | | |-- <Expression> = <Field> = b  | |  | |-- AND  | |  | |-- <Term>  | |  | |-- <Expression> = <Field> = c  | |-- =  | |-- <Expression> = <Constant> = IntTok = 0 |
| 9.1.d. | <UpdateCmd>  |  |-- <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> = a  | | |-- ,  | | |-- <Field> = b  | | |-- ,  | | |-- <Field> = c  | |-- )  | |-- VALUES  | |-- (  | |-- <ConstList>  | | |  | | |-- <Constant> = IntTok = 3  | | |-- ,  | | |-- <Constant> = StrTok = 'glop'  | | |-- ,  | | |-- <Constant> = IntTok = 4  | |-- ) |
| 9.1.f. | <UpdateCmd>  |  |-- <Create>  | |  | |-- <CreateTable>  | |  | |-- CREATE TABLE  | |-- IdTok = x  | |-- (  | |-- <FieldDefs>  | | |  | | |-- <FieldDef>  | | | |  | | | |-- IdTok = a  | | | |-- <TypeDef> = VARCHAR ( IntTok = 3 )  | | |  | | |-- ,  | | |-- <FieldDef>  | | | |  | | | |-- IdTok = b  | | | |-- <TypeDef> = INT  | | |  | | |-- ,  | | |-- <FieldDef>  | | |  | | |-- IdTok = c  | | |-- <TypeDef> = VARCHAR ( IntTok = 2 )  | |-- ) |
| 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>** is:  <Create> := <CreateTable> | <CreateView> | <CreateIndex>  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> := TABLE <CreateTableDetails> | VIEW <CreateViewDetails> | INDEX <CreateIndexDetails>  This modified grammar uses the "CREATE" keyword followed by the specific type keyword to guide the parser in it decision-making process.Top of FormBottom of Form |