

Most Common Exceptions in Salesforce

- **DMLException:** It occurs whenever we missed any required field on the record related to dml (insert, update, delete).

Example: `Contact con = new Contact (firstName='test1', email='9688868655@gmail.com');`

`insert con; // System.DmlException: Insert failed. First exception on row 0; first error: REQUIRED_FIELD_MISSING, required fields are missing: [LastName]: [LastName]`

- **LimitException:** It occurs when we hit governor limit

```
List<Account> accList= new List<Account> ();
    For (Account acc: [Select id from Account]) {
        //here it will hit governor limit , As per governor limits I can retrieve 50,000
        records by doing a single query
        accList.add(acc);
    }
//System.LimitException: Too many query rows: 50001
```

- **ListException:** It occurs when any problem with a list, such as attempting to access an index that is out of bounds.

Example: `List<String> s = new List<String> ();`

`string records = s [0]; // System.ListException: List index out of bounds: 0`

- **NullPointerException:** It occurs when you are trying to access object/list/variable that is null.

Example: `String s;`

`s.toLowerCase(); // Since s is null, this call causes`

`// a NullPointerException`

- **QueryException:** It occurs when we are assign query that return list of records or no records to a singleton object.

Example: `Contact con=new Contact ();`

`con = [Select Id, firstName From Contact LIMIT 5] ;`

`// System.QueryException: List has more than 1 row for assignment to SObject.`

- **MathException:** It occurs when we divide any number by zero.

Example: Integer s = 126;

s/0; //System.MathException: Divide by 0

- **NoDataFoundException:** Any problem with data that does not exist, such as trying to access an SObject that has been deleted. This is generally used with Visualforce pages.
- **SObjectException:** It occurs when user try to change the field value in update statement that can only be change in insert statement.