Old Laboratorians' Association (OLsA)

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DATABASE AUDIT & REMEDIATION REPORT

Subject: Member Batchcode vs. SSC Graduation Year Mismatch Audit & Systemic Correction

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Executive Council Audit, Technical Root Cause Analysis & Remediation Plan

Investigation triggered by Member Record **#9 (Khandaker Arif Mohiuddin)** carrying Batchcode **1983044** while belonging to SSC Batch **2001**. This report presents a full database audit of all **3,389 Members**, identifies **25 Mismatched Members** (and 3 active database collisions), details why each incident occurred, and presents the permanent patch remediation.

3,389	25	3	100%
TOTAL MEMBERS AUDITED	MISMATCHED MEMBERS	COLLISIONS RESOLVED	REMEDIATED & VERIFIED

1. Executive Summary & Investigation Background

Under OLsA database architecture, every member's **Batchcode** is a 7-digit numeric string formatted as `YYYYSSS`, where the first 4 digits (`YYYY`) strictly represent the member's SSC Passing Year (Batch Year), followed by a 3-digit serial number (`SSS`) within that specific batch. A query on Member #9 (Khandaker Arif Mohiuddin) revealed an anomaly: his record listed **Batch: 2001**, but his **Batchcode was 1983044** and **Lab ID was LM1983044**. A system-wide scan across all 3,389 registered members in the database confirmed that exactly **25 members** suffered from mismatched batchcode prefixes.

Critical Finding: Active Database Identifier Collisions

The batchcode corruption was not merely cosmetic. It caused three active identifier collisions with legitimate alumni:

- **1983044:** Member #9 (2001 batch) was sharing batchcode with **Md. Rezaul Karim (Alumni #6450, legitimate 1983 batch)**.
- **2015218:** Member #322 (2016 batch) was sharing batchcode with **Khalid Prodhan (Member #3300, legitimate 2015 batch)**.
- **2015219:** Member #323 (2016 batch) was sharing batchcode with **Nahiyan Rahman (Member #3350, User #2542, legitimate 2015 batch)**.

2. Root Cause Analysis: Why Did These Mismatches Happen?

Root Cause Category	Affected Records	Technical Explanation
A. Bulk Numbering Overflow	17 Members (Batches 2016, 2019, 2020, 2021)	During past bulk member data imports (via legacy scripts/spreadsheets), serial number counters failed to reset and re-prefix when transitioning to new graduation years: • **2016 Batch (9 members):** Counter continued from 2015 batch sequence (`2015212` – `2015220`) instead of generating `20160xx`. • **2019, 2020, 2021 Batches (8 members):** Single contiguous 2018 sequence (`2018137` – `2018149`) spilled across 2019, 2020, and 2021 batches.
B. Dual Record & Legacy Typo	1 Member (Member #9)	Khandaker Arif Mohiuddin was originally imported into the offline voter registry as **Member #89** with proper batchcode **2001105** (matching User #2489). During subsequent manual entry of his Life Membership application as Member #9, an operator keyed `1983044` instead of selecting his registered 2001 profile, stealing a 1983 alumnus slot.
C. Embedded Prefix Anomaly	1 Member (Member #1552)	Member Abdul Aziz Kabir (Batch 2008) had the membership card abbreviation **"GM"** and placeholder **"X"** directly entered into the database column: `GM2008X`. This bypassed 7-digit validation and produced an invalid Lab ID.
D. Legacy Serial Keying	1 Member (Member #1690)	Mir M. Rezaul Karim (Batch 1975) was keyed with batchcode `1972064` during 2026 legacy database migration from older association paper books.
E. Alumni Batch Typo	1 Alumnus (Alumni #7811)	Mohaimin Kamal (Member #156, Batch 2005, Batchcode 2005169) had his alumni graduation year mistakenly typed as `1995` in the legacy alumni table while his member record was correct.

3. Complete Remediation Matrix (Before vs. After)

All 25 member records and associated alumni/volunteer records are corrected to next available sequential identifiers conforming to OLsA Article 7 standard:

ID	Member Name	Batch	Type	Old Batchcode	Old Lab ID	New Batchcode	New Lab ID
9	Khandaker Arif Mohiuddin	2001	Life	1983044	LM1983044	2001105	**LM2001105**
1690	MIR M. REZAUL KARIM	1975	Life	1972064	LM1972064	1975072	**LM1975072**
1552	ABDUL AZIZ KABIR	2008	General	GM2008X	GM2008X	2008119	**GM2008119**
316	Kazi shihab sayem	2016	General	2015212	GM2015212	2016048	**GM2016048**
317	Bijoy chnadra shill	2016	General	2015213	GM2015213	2016049	**GM2016049**
318	Atik shahrira bhuyian	2016	General	2015214	GM2015214	2016050	**GM2016050**
319	Atik murshed emu	2016	General	2015215	GM2015215	2016051	**GM2016051**
320	Sheikh samim faiz	2016	General	2015216	GM2015216	2016052	**GM2016052**
321	Shadman sakib zahin	2016	General	2015217	GM2015217	2016053	**GM2016053**
322	TUSHAR CHANDRA ROY	2016	General	2015218	GM2015218	2016054	**GM2016054**
323	Awlad Hossain Ohe	2016	General	2015219	GM2015219	2016055	**GM2016055**
324	Khandaker Janamul Hoque	2016	General	2015220	GM2015220	2016056	**GM2016056**
367	Ashik rahman udai	2019	General	2018137	GM2018137	2019041	**GM2019041**
368	Asharaful Islam jisan	2019	General	2018138	GM2018138	2019042	**GM2019042**
369	Safayet hasan shuvo	2019	General	2018139	GM2018139	2019043	**GM2019043**
370	Hasnat jamil	2019	General	2018140	GM2018140	2019044	**GM2019044**
371	Amir suja shimul	2019	General	2018141	GM2018141	2019045	**GM2019045**
372	Talha hasan	2020	General	2018142	GM2018142	2020026	**GM2020026**
1643	Arfaz Limon	2020	General	2018143	GM2018143	2020027	**GM2020027**
373	Md. Rejoan Islam Khandaker	2020	General	2018144	GM2018144	2020028	**GM2020028**
374	Tanzim Hossain	2021	General	2018145	GM2018145	2021044	**GM2021044**
375	Ahmed rafi	2021	General	2018146	GM2018146	2021045	**GM2021045**
376	Quazi tasnim zamam	2021	General	2018147	GM2018147	2021046	**GM2021046**
377	Sun dutt	2021	General	2018148	GM2018148	2021047	**GM2021047**
378	Souvil mitra mazumder	2021	General	2018149	GM2018149	2021048	**GM2021048**

4. Downstream Referential Integrity & Verification Protocol

Comprehensive Table Synchronization

• **Alumni Table:** All 25 matching alumni records updated in tandem with their member records. Additionally, Alumnus #7811 (Mohaimin Kamal) has his batch corrected from 1995 to 2005.
• **Volunteer Profiles:** Profile for Kazi Shihab Sayem updated from `2015212` to `2016048`.
• **Users Table:** Legitimate owners (Nahiyan Rahman #2542, Khalid Prodhan #3300) remain undisturbed. User #2489 (Khandaker Arif Mohiuddin) was already `2001105` and is now linked to Member #9.
• **Member #89 Archival:** Unactivated duplicate stub record #89 is archived and marked as merged into Member #9 to prevent collision on `2001105`.
• **Financial / Transactions:** Transactions link by `member_id` or internal PK, preserving complete payment history without disruption.

IT & Database Lead	General Secretary	Treasurer	President
Systems Audit Team	Executive Council, OLsA	Executive Council, OLsA	Executive Council, OLsA