

Complaints Management Service

Milestone: Implementation in MySQL

Study Group 19

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Submission Date: Nov 5, 2022

SUMMARY:

Currently we have created a Schema using our logical model in MySQL. The DDL Statements for our schema are shown on the attached pages to this document. We have utilized FillDB.info in order to generate data for our project. After generating the data, we queried INSERT statements (examples below) in order to import the data into our database. After inserting the records for the tables, using the SELECT statement we have retrieved all the records in those tables, the screenshots of the SELECT statement with the records retrieved by it are attached below.

Figure 1: Manufacturing Sites

```
/ * 10000 rows inserted successfully. */  
INSERT INTO `MANUFACTURINGSITE` VALUES (102,'Hubert','3','222 Ervin Port\nLake Masonfurt, NY 96642'),(101,'Friedrich','2','85412 Shields  
Drives\nRaheemmouth, AK 71936'),(103,'Loyal','1','23086 Charlene Road\nNorth Alda, TX 35852-9713');
```

MFGSiteNo	MFGSite_FName	MFGSite_LName	MFGSite_Address
▶ 101	Friedrich	2	85412 Shields Drives Raheemmouth, AK 71936
102	Hubert	3	222 Ervin Port Lake Masonfurt, NY 96642
103	Loyal	1	23086 Charlene Road North Alda, TX 35852-9713
NULL	NULL	NULL	NULL

Figure 2: Customer Account examples

```
INSERT INTO `CUSTOMER` ('CustomerID', 'CustomerAccountCreationDate') VALUES (200014, '2022-02-18 19:48:03');  
INSERT INTO `CUSTOMER` ('CustomerID', 'CustomerAccountCreationDate') VALUES (200042, '1976-02-27 18:53:54');  
INSERT INTO `CUSTOMER` ('CustomerID', 'CustomerAccountCreationDate') VALUES (200045, '1981-11-13 00:00:20');  
INSERT INTO `CUSTOMER` ('CustomerID', 'CustomerAccountCreationDate') VALUES (200133, '2001-07-08 13:57:46');  
INSERT INTO `CUSTOMER` ('CustomerID', 'CustomerAccountCreationDate') VALUES (200142, '1998-02-20 12:24:46');  
INSERT INTO `CUSTOMER` ('CustomerID', 'CustomerAccountCreationDate') VALUES (200147, '2016-04-02 08:20:37');  
INSERT INTO `CUSTOMER` ('CustomerID', 'CustomerAccountCreationDate') VALUES (200196, '2012-03-09 19:59:18');  
INSERT INTO `CUSTOMER` ('CustomerID', 'CustomerAccountCreationDate') VALUES (200234, '1993-11-10 17:35:42');  
INSERT INTO `CUSTOMER` ('CustomerID', 'CustomerAccountCreationDate') VALUES (200443, '1989-08-09 03:46:47');
```

5 ▶ SELECT * FROM CUSTOMER;

100% ◊ 1:4

Result Grid Filter Rows: Search Edit: Export/Import:

CustomerID	CustomerAccountCreationD...
200014	2022-02-18 19:48:03
200042	1976-02-27 18:53:54
200045	1981-11-13 00:00:20
200133	2001-07-08 13:57:46
200142	1998-02-20 12:24:46
200147	2016-04-02 08:20:37
200196	2012-03-09 19:59:18
200234	1993-11-10 17:35:42
200443	1989-08-09 03:46:47
200505	2009-02-18 20:56:04
200554	2008-06-15 15:31:14
200624	2012-06-17 21:44:31
200652	1995-05-25 15:17:20
200688	1998-07-23 19:43:12
200699	2014-01-31 03:33:11
200697	2008-07-04 18:45:18
200722	1974-05-22 12:19:32
200728	1997-11-07 22:05:34
200788	2020-02-05 19:47:08
200810	2003-04-07 03:52:04
200864	1975-08-10 18:22:45
200909	2014-02-15 00:56:19
200922	1993-05-18 11:17:20
200935	1973-04-27 02:00:24
200939	2014-10-20 12:36:53
200984	2005-12-11 17:07:58
201028	2021-04-01 04:19:21

Figure 3: Product examples

```

INSERT INTO `PRODUCT` (`ProductID`, `ProductName`, `ProductMFGDate`, `ProductLotNumber`) VALUES (0, 'LightGray', '1976-08-18 02:20:03', 90327803);
INSERT INTO `PRODUCT` (`ProductID`, `ProductName`, `ProductMFGDate`, `ProductLotNumber`) VALUES (1, 'GhostWhite', '2015-08-23 11:11:07', 36834877);
INSERT INTO `PRODUCT` (`ProductID`, `ProductName`, `ProductMFGDate`, `ProductLotNumber`) VALUES (2, 'LightGoldenRodYellow', '2016-10-20 09:46:16', 69004216);
INSERT INTO `PRODUCT` (`ProductID`, `ProductName`, `ProductMFGDate`, `ProductLotNumber`) VALUES (3, 'Orange', '2022-10-09 06:50:59', 94459074);
INSERT INTO `PRODUCT` (`ProductID`, `ProductName`, `ProductMFGDate`, `ProductLotNumber`) VALUES (4, 'SteelBlue', '1980-09-04 14:58:49', 27492284);
    
```

The screenshot shows a database query results grid. The query is:

```
6
7 • SELECT * FROM PRODUCT;
```

The results show 10 rows of data:

ProductID	ProductName	ProductMFGDate	ProductLotNum...
0	LightGray	1976-08-18 02:20:03	90327803
1	GhostWhite	2015-08-23 11:11:07	36834877
2	LightGoldenRodYellow	2016-10-20 09:46:16	69004216
3	Orange	2022-10-09 06:50:59	94459074
4	SteelBlue	1980-09-04 14:58:49	27492284
5	Chocolate	2022-03-08 06:46:24	15978752
6	GhostWhite	1994-01-28 03:24:27	63285451
7	Crimson	2013-06-07 07:59:50	69067600
8	SteelBlue	2006-05-15 23:58:21	3035450
9	HoneyDew	1973-04-24 05:43:59	30152380
NULL	NULL	NULL	NULL

Figure 4: End User Examples

```

INSERT INTO `ENDUSER` (`EndUserID`, `EndUserFname`, `EndUserLname`, `EndUserAddress`, `CustomerIDNumber`) VALUES (1027, 'Deja', 'Doyle', '9857 Boyle Forest Suite 340\nMyrtisbury, HI 57472-4963', 200147);
INSERT INTO `ENDUSER` (`EndUserID`, `EndUserFname`, `EndUserLname`, `EndUserAddress`, `CustomerIDNumber`) VALUES (1028, 'Abe', 'Jacobson', '9220 Matilde Shoal Apt. 741\nRoombouth, MS 32122', 201494);
INSERT INTO `ENDUSER` (`EndUserID`, `EndUserFname`, `EndUserLname`, `EndUserAddress`, `CustomerIDNumber`) VALUES (1029, 'Aletha', 'Hill', '224 Reichert Hills\nGwendolynview, LA 57542', 200042);
INSERT INTO `ENDUSER` (`EndUserID`, `EndUserFname`, `EndUserLname`, `EndUserAddress`, `CustomerIDNumber`) VALUES (1038, 'Deion', 'Daugherty', '9559 Lacey Ridges New Andreanborough, ID 45491-5325', 200922);
INSERT INTO `ENDUSER` (`EndUserID`, `EndUserFname`, `EndUserLname`, `EndUserAddress`, `CustomerIDNumber`) VALUES (1046, 'Flossie', 'McClure', '562 Ruben Ports New Billy, ID 99326', 200768);
    
```

The screenshot shows a database query results grid. The query is:

```
8
9 • SELECT * FROM ENDUSER;
```

The results show 33 rows of data:

EndUserID	EndUserFname	EndUserLname	EndUserAddress	CustomerIDNumb...
1029	Aletha	Hill	224 Reichert Hills\nGwendolynview, LA 57542	200042
1038	Deion	Daugherty	9559 Lacey Ridges New Andreanborough, ID 45491-5325	200922
1046	Flossie	McClure	562 Ruben Ports New Billy, ID 99326	200768
1059	Al	Bednar	1984 Alysa Ports Suite 256 Winfield, MT 100690	200690
1065	Halle	Fadel	525 Crist Orchard New Linnea, VT 33...	200443
1083	Barry	Swift	937 Bernardo Alley New Estellestad, MT 101108	201108
1101	Cindy	Hirthe	186 Davis Green Suite 892 Kristians...	200234
1110	Petra	Rosenbaum	397 Rau Gardens Zelmachester, GA...	201689
1113	Amelia	Simonis	2053 Gene Tunnel Suite 857 Port Orv...	201028
1119	Earl	Bechtolar	03373 Rutherford Bypass Apt. 507 Ja...	201590
1129	Shayna	Waelchi	13800 Eula Mountain North Alessandr...	201075
1160	Kevon	Cartwright	52319 Bruen River Jeraldburgh, CA 5...	201336
1187	Rylee	Wehner	4870 Jacobi Neck New Wilfridport, CA...	201555
1169	Tatum	Ulrich	887 Cristobal Square Rechleton, ME...	200624
1189	Jonatan	Marks	513 Schowalter Corner Suite 930 Lak...	200984
1199	Thomas	Spencer	0113 Giovani Motorway New Carolan...	202149
1201	Kristoffer	Simonis	1089 Ethan Ridge Apt. 664 Fayechest...	200685
1204	Ismael	Becker	49206 Sven Lock North Adaline, MT 1...	200443
1232	Landen	Turner	0678 Erick Route Suite 677 Lake Rica...	202169
1266	Shaina	Haag	2651 Zulaut Alley Ollieberg, KY 49964	201442
1270	Baron	Breitenberg	2868 Stracke Summit Wallerfort, MT...	201952
1287	Lily	Harvey	49439 Conn Hills Apt. 188 North St...	200133
1288	Jamal	Willms	71270 Price Drive Port Einoland, KS...	200196
1295	Marianna	Kiehn	36907 Pfannerstill Street Gukowskip...	200133
1317	Ari	Grady	17825 Just Highway Apt. 121 Aniyash...	200728
1328	Jairo	Collier	0277 Denesik Streets West Alfton, KY...	200768
1332	Rosa	Bergstrom	221 Feeney Ramp Suite 747 South S...	201028

Figure 5: Hospital Examples

```

10
11 • SELECT * FROM HOSPITAL;
100% 24:11 | Result Grid Filter Rows: Search Edit: Export/Import:

```

INSERT INTO `HOSPITAL` ('HospitalID', 'HospitalFname', 'HospitalLname', 'HospitalAddress', 'CustomerID') VALUES (1027, 'Morar LLC', 'gray', '514 Ryan Ridge\nMyabury, OR 44803', 201056);
INSERT INTO `HOSPITAL` ('HospitalID', 'HospitalFname', 'HospitalLname', 'HospitalAddress', 'CustomerID') VALUES (1291, 'Becker and Sons', 'navy', '506 Urban Terrace Suite 784\nn\\Keefetown, AL 83230-2359', 200147);
INSERT INTO `HOSPITAL` ('HospitalID', 'HospitalFname', 'HospitalLname', 'HospitalAddress', 'CustomerID') VALUES (1439, 'Pagac-Parisian', 'yellow', '3884 Queen Square Suite 123\nnSouth Vivianne, MD 04291-1113', 200935);
INSERT INTO `HOSPITAL` ('HospitalID', 'HospitalFname', 'HospitalLname', 'HospitalAddress', 'CustomerID') VALUES (1476, 'Bernardo Throughway', 'aqua', '14706 Bernardo Throughway Suite 64...', 201176);
INSERT INTO `HOSPITAL` ('HospitalID', 'HospitalFname', 'HospitalLname', 'HospitalAddress', 'CustomerID') VALUES (1590, 'Feil Inc', 'purple', '14706 Bernardo Throughway Suite 64...', 201028);

HospitalID	HospitalFname	HospitalLname	HospitalAddress	CustomerID
1439	Pagac-Parisian	yellow	3884 Queen Square Suite 123 South...	200935
1590	Feil Inc	aqua	14706 Bernardo Throughway Suite 64...	201176
1744	Mosciski, Beatty and Hessel	purple	366 Alice Hill Apt. 543 Gerlachmouth...	201028
1917	Erdman, Grimes and Kerluke	navy	195 Bogisich Via East Matt, IL 56853	201565
1986	Quigley Inc	lime	91258 Green Station Apt. 559 Port W...	201149
2258	Haag, Okkon and Lockman	green	72066 Gulowski Squares Fredrikto...	201494
2265	Legros PLC	gray	09249 Elyssa Underpass Suite 259 K...	200939
2383	Simonis PLC	white	38410 Alba Port Apt. 987 Andersson...	200196
2612	Manvin PLC	lime	451 Margarita River Suite 634 Lemke...	201228
2801	Steuber Inc	blue	6247 McLaughlin Prairie Apt. 674 Aniy...	200728
3177	Pacocha Inc	fuchsia	833 Wyman Trail South Niko, NC 73...	201078
3376	Reichert Ltd	lime	6253 Layla Path Suite 637 Festhav...	201566
3409	Halvorson-Orn	maroon	948 Deon Shores Suite 079 Kianafur...	200624
3633	Harris-D'Amore	purple	51029 Collier Light Hermanburgh, IA...	201075
4054	Rau and Sons	olive	03601 Eugenia Island Apt. 551 Trem...	200922
4358	Douglas Group	lime	448 Powłowski Estates Haughchester...	201366
4660	Kulas, Dare and Schinner	yellow	388 Viviane Well Apt. 182 Port Chan...	200014
5140	Murphy and Sons	gray	660 Roselyn Wells West Beryl, IN 97...	201336
5340	Krajcik, Herman and McCull...	aqua	8063 Hoppe Hills Suite 045 Lake Woo...	201125
5402	Steuber, Vandervort and M...	maroon	01228 Dare Valley Amritburgh, OH 92...	200652
5602	Turner PLC	navy	717 Erdman Trafficway Suite 155 Wo...	200554
5604	Gorcany PLC	teal	3974 Nicola Lakes North Augustus, N...	201442
5628	Spinka-Lockman	fuchsia	788 Brenda Heights Suite 151 Roland...	200810
6351	Ortiz PLC	maroon	727 Cruckshank Common Langoshvi...	201188
6390	Emser Sawaya	blue	44319 Anibal Mount Apt. 409 Breitenb...	200722
6708	Rood-Doyle	fuchsia	92640 Coleman Cliffs Apt. 453 South...	200142
6770	Beahan-Daniel	navy	79446 Brad Falls Ovachester, MO 56...	200042

Figure 6: Supplier Examples

```

12
13 • SELECT * FROM SUPPLIER;
100% 24:13 | Result Grid Filter Rows: Search Edit: Export/Import:

```

INSERT INTO `SUPPLIER` ('SupplierID', 'SupplierFname', 'SupplierLname', 'SupplierAddress') VALUES (1, 'Cummings-Kozey', 'LLC', '91921 Eudora Forks Suite 795\nnHilperthaven, IL 58839');
INSERT INTO `SUPPLIER` ('SupplierID', 'SupplierFname', 'SupplierLname', 'SupplierAddress') VALUES (2, 'Beer PLC', 'Inc', '935 Ferry Spurs\nLake Verna, WA 46734');
INSERT INTO `SUPPLIER` ('SupplierID', 'SupplierFname', 'SupplierLname', 'SupplierAddress') VALUES (3, 'McKenzie-Ritchie', 'and Sons', '0785 Duane Radial\nnSouth Meredith, KS 29971-7012');
INSERT INTO `SUPPLIER` ('SupplierID', 'SupplierFname', 'SupplierLname', 'SupplierAddress') VALUES (4, 'Lind, Tremblay and Ziemann', 'Ltd', '2422 Cremin Stravenue\nnNew Alphonsoville, OR 23664');
INSERT INTO `SUPPLIER` ('SupplierID', 'SupplierFname', 'SupplierLname', 'SupplierAddress') VALUES (5, 'Raynor-Hermann', 'LLC', '525 Lowe Drive Apt. 092 Lowe A...

SupplierID	SupplierName	SupplierName	SupplierAddress
0	Walter LLC	Inc	94368 Beatty Crossroad Adam...
1	Cummings-Kozey	LLC	91921 Eudora Forks Suite 795...
2	Beer PLC	Inc	935 Ferry Spurs\nLake Verna...
3	McKenzie-Ritchie	and Sons	0785 Duane Radial\nnSouth Meredith, KS 29971-7012
4	Lind, Tremblay and Ziemann	Ltd	2422 Cremin Stravenue\nnNew Alphonsoville, OR 23664
5	Raynor-Hermann	LLC	525 Lowe Drive Apt. 092 Lowe A...
6	Davis-Mills	LLC	503 Macey Mews Suite 678 D...
7	VonRueden Inc	Inc	796 Cittalli Drive Lake Rubyvie...
8	Stanton-Simonis	Ltd	076 Alan Street North Emery...
9	Pacocha LLC	PLC	2609 Mosciski Port Suite 134...
10	O'Reilly-Kutch	Inc	07566 Bertha Course Ballstree...
11	Denesik-Cartwright	LLC	143 Julie Shoal Lake Edwardo...
12	Gottlieb LLC	Ltd	98172 Bogisich Flat New Lanc...
13	Okuneva Inc	Group	5839 Madeline Tunnel Apt. 496...
14	Schamberger LLC	LLC	857 Lemke Estates Suite 262...
15	Becker Inc	Inc	50963 Berge Causeway Wehn...
16	Goldner-Luetgen	PLC	88260 Weldon Stream Alexzan...
17	Cummings Inc	PLC	2391 Lynch Ranch New Sydn...
18	Dick PLC	Group	93874 Toy Drives Howtown...
19	Doyle Group	Inc	3302 Francki Causeway Apt...
20	Zieme-Zemlak	PLC	715 Bogan Wells Suite 392 Ha...
21	Funk-O'Keefe	Group	6383 Allie Track Apt. 731 Haub...
22	Bergstrom-Stroman	LLC	4356 Legros Gardens Apt. 469...
23	McCull-Cummings	Inc	265 Rempel Mansions Quimfun...
24	Crone-Durgan	Group	159 Rhea Summit Port Theodo...
25	Casper Group	Inc	115 Karine Passage Apt. 567 A...
26	Irami, Sipes and Satterfield	Group	1650 Mac Via Kasuukitown...
27			

Figure 7: Distributor Examples

```

INSERT INTO `DISTRIBUTOR` ('DistributorID', 'DistributorFname', 'DistributorLname', 'DistributorAddress', 'DateReceived') VALUES (1, 'Zemlak, Weber and Hilpert', 'Group', '1951 Miguel Courts Suite 454\nLake Fannie, IL 21426', '1971-02-10 22:10:44');
INSERT INTO `DISTRIBUTOR` ('DistributorID', 'DistributorFname', 'DistributorLname', 'DistributorAddress', 'DateReceived') VALUES (2, 'Ryan, Shields and Greenfelder', 'and Sons', '262 Justina Springs Suite 767\nEast Isabel, NC 88321', '1991-03-08 03:56:18');
INSERT INTO `DISTRIBUTOR` ('DistributorID', 'DistributorFname', 'DistributorLname', 'DistributorAddress', 'DateReceived') VALUES (3, 'Kilback and Sons', 'Group', '1236 Herzog Plaza Apt. 985\nLelaville, SC 02428', '2000-09-17 12:07:00');
INSERT INTO `DISTRIBUTOR` ('DistributorID', 'DistributorFname', 'DistributorLname', 'DistributorAddress', 'DateReceived') VALUES (4, 'Hirthe Group', 'Inc', '0598 Karlie Cove Suite 561\nNorth Diamondtown, HI 68149', '1982-12-28 23:51:07');
INSERT INTO `DISTRIBUTOR` ('DistributorID', 'DistributorFname', 'DistributorLname', 'DistributorAddress', 'DateReceived') VALUES (5, 'Tremblay and Sons', 'PLC', '6701 Lamont Route Suite 422\nWest Lorstad, CO 09664-0996', '2017-07-24 02:35:53');

```

14
15 • SELECT * FROM DISTRIBUTOR;

100% 27:15

Result Grid Filter Rows: Search Export/Import:

DistributorID	DistributorFname	DistributorLname	DistributorAddress	DateReceived
1	Zemlak, Weber and Hilpert	Group	1951 Miguel Courts Suite 454...	1971-02-10 22:10:44
2	Ryan, Shields and Greenfelder	and Sons	262 Justina Springs Suite 76...	1991-03-08 03:56:18
3	Kilback and Sons	Group	1236 Herzog Plaza Apt. 985...	2000-09-17 12:07:00
4	Hirthe Group	Inc	0598 Karlie Cove Suite 561 N...	1982-12-28 23:51:07
5	Tremblay and Sons	PLC	6701 Lamont Route Suite 42...	2017-07-24 02:35:53
6	Nolan, Bogan and Ullrich	LLC	484 Muller Valleys Suite 632...	1998-01-17 14:19:39
7	Lowe Inc	Inc	232 Dagmar Way Suite 799 N...	1978-08-04 21:17:28
8	Heaney-Blanda	Inc	786 Durward Glen Apt. 682 H...	2013-02-03 12:08:02
9	Wolff PLC	PLC	858 Rau Brooks Suite 290 Br...	1994-08-04 08:55:29
10	Kovacek-Brakus	PLC	602 Melysa Square Suite 37...	1974-07-26 11:49:12
11	Gusikowski-Jast	and Sons	93322 Tina Brook South Lyric...	1972-12-26 19:25:54
12	Gaylord-Hammes	LLC	4548 Bayer Plains West Alf...	1973-03-14 19:15:46
13	Beier, Kling and Johnson	Group	7662 Curt Drives Lake Kurtis...	1983-07-08 10:55:28
14	Roberts Group	LLC	23812 Valentine Rapid Apt. 9...	2006-09-13 04:49:16
15	Kertmann-Kessler	Inc	8168 Burdette Isle Donnelly...	2009-06-23 14:38:59
16	Kris-Hahn	PLC	98691 Maggie Course West...	1978-07-06 10:38:30
17	Witting Group	PLC	806 Zieme Falls Port Daneshi...	1982-02-28 11:37:14
18	Albert, Schulist and Boyle	PLC	0979 Linwood Squares Apt. 1...	1975-04-22 09:50:07
19	Hoeger-Maggio	and Sons	705 Maci Loaf Suite 870 Bren...	1984-06-24 14:35:52
20	Hand, Bins and Schoen	PLC	91243 Bayer Expressway Apt...	2015-06-13 06:34:38
21	Howell, Medhurst and Emard	Inc	670 Rickey Key East Logan...	2019-02-15 21:08:36
22	Pfeffer-Schumm	Inc	01493 Berenice Parkways Kr...	2020-09-18 19:43:13
23	Hagenes, Sawany and Tillman	Group	7403 Willis Port West Kayden...	2006-04-16 02:37:19
24	Mosciski, Zemlak and Lynch	Group	9565 Lubowitz Turnpike Suite...	1970-06-21 18:09:47
25	Mueller-Schimmel	Ltd	40070 Mueller Spring West Di...	2003-06-26 06:56:51
26	Rosenbaum-Kirin	Group	790 Theresa Views Apt. 286...	1980-05-05 09:08:40
27	Robel Group	PLC	91187 Warren Courts Apt. 87...	1999-10-07 01:13:28

Figure 8: Store Example

```

INSERT INTO `STORES` ('DistributorIDNumber', 'ProductID') VALUES (1, 0);
INSERT INTO `STORES` ('DistributorIDNumber', 'ProductID') VALUES (2, 1);
INSERT INTO `STORES` ('DistributorIDNumber', 'ProductID') VALUES (3, 2);
INSERT INTO `STORES` ('DistributorIDNumber', 'ProductID') VALUES (4, 3);
INSERT INTO `STORES` ('DistributorIDNumber', 'ProductID') VALUES (5, 4);
INSERT INTO `STORES` ('DistributorIDNumber', 'ProductID') VALUES (6, 5);
INSERT INTO `STORES` ('DistributorIDNumber', 'ProductID') VALUES (7, 6);
INSERT INTO `STORES` ('DistributorIDNumber', 'ProductID') VALUES (8, 7);
INSERT INTO `STORES` ('DistributorIDNumber', 'ProductID') VALUES (9, 8);
INSERT INTO `STORES` ('DistributorIDNumber', 'ProductID') VALUES (10, 9);

```

16
17 • SELECT * FROM STORES;

100% 1:16

Result Grid Filter Rows: Search Export:

DistributorIDNum...	ProductID
1	0
2	1
3	2
4	3
5	4
6	5
7	6
8	7
9	8
10	9
11	0
12	1
13	2
14	3
15	4
16	5
17	6
18	7
19	8
20	9
21	0
22	1
23	2
24	3
25	4
26	5
27	6

Figure 9: Sells Example

```
INSERT INTO `SELLS` (`DistributorNumber`, `CustomerNumber`) VALUES (1, 200014);
INSERT INTO `SELLS` (`DistributorNumber`, `CustomerNumber`) VALUES (2, 200042);
INSERT INTO `SELLS` (`DistributorNumber`, `CustomerNumber`) VALUES (3, 200045);
INSERT INTO `SELLS` (`DistributorNumber`, `CustomerNumber`) VALUES (4, 200133);
INSERT INTO `SELLS` (`DistributorNumber`, `CustomerNumber`) VALUES (5, 200142);
INSERT INTO `SELLS` (`DistributorNumber`, `CustomerNumber`) VALUES (6, 200147);
INSERT INTO `SELLS` (`DistributorNumber`, `CustomerNumber`) VALUES (7, 200196);
INSERT INTO `SELLS` (`DistributorNumber`, `CustomerNumber`) VALUES (8, 200234);
INSERT INTO `SELLS` (`DistributorNumber`, `CustomerNumber`) VALUES (9, 200443);
INSERT INTO `SELLS` (`DistributorNumber`, `CustomerNumber`) VALUES (10, 200506);
```

The screenshot shows a MySQL Workbench interface with the following details:

- Session: 18
- Query Number: 19
- Query Type: SELECT * FROM SELLs;
- Progress: 100%
- Time: 14:17
- Result Grid: Shows the data from the SELLs table.
- Filter Rows: Available but not applied.
- Search: Available.
- Export: Available.

The Result Grid displays the following data:

DistributorNum...	CustomerNumb...
1	200014
2	200042
3	200045
4	200133
5	200142
6	200147
7	200196
8	200234
9	200443
10	200506
11	200554
12	200624
13	200652
14	200685
15	200690
16	200697
17	200722
18	200728
19	200768
20	200810
21	200864
22	200905
23	200922
24	200935
25	200939
26	200984
27	201028

DDL STATEMENTS FOR OUR PROJECT

```
CREATE SCHEMA `complaints_management_service` ;
```

→ Supplier Table DDL

```
CREATE TABLE `SUPPLIER` (
  `SupplierID` int NOT NULL,
  `SupplierFname` varchar(45) NOT NULL,
  `SupplierLname` varchar(45) NOT NULL,
  `SupplierAddress` varchar(255) NOT NULL,
  PRIMARY KEY (`SupplierID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

→ **Manufacturing Site Table DDL**

```
CREATE TABLE `MANUFACTURING SITE` (
  `MFGSiteNo` int NOT NULL,
  `MFGSite_FName` varchar(45) NOT NULL,
  `MFGSite_LName` varchar(45) NOT NULL,
  `MFGSite_Address` varchar(255) NOT NULL,
  PRIMARY KEY (`MFGSiteNo`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

→ **Supplies Table DDL**

```
CREATE TABLE `SUPPLIES` (
  `SupplierID` int NOT NULL,
  `MFGSiteNo` int NOT NULL,
  KEY `SupplierID_idx` (`SupplierID`),
  KEY `MFGSiteNo_idx` (`MFGSiteNo`),
  CONSTRAINT `MFGSiteNo` FOREIGN KEY (`MFGSiteNo`) REFERENCES `MANUFACTURING SITE` (`MFGSiteNo`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `SupplierID` FOREIGN KEY (`SupplierID`) REFERENCES `SUPPLIER` (`SupplierID`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

→ **Non_Conformance_Report Table DDL**

```
CREATE TABLE `NON CONFORMANCE REPORT` (
  `NCR#` int NOT NULL,
  `NCR_Date_Created` datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  `Field_Action` varchar(255) NOT NULL,
  PRIMARY KEY (`NCR#`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

→ **Assigned Table DDL**

```
CREATE TABLE `ASSIGNED` (
  `SupID` int NOT NULL,
  `NCR#` int NOT NULL,
  KEY `SupplierID_idx` (`SupID`),
  KEY `NCR#_idx` (`NCR#`),
  CONSTRAINT `NCR#` FOREIGN KEY (`NCR#`) REFERENCES `NON CONFORMANCE REPORT` (`NCR#`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `SupID` FOREIGN KEY (`SupID`) REFERENCES `SUPPLIER` (`SupplierID`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

→ **Reports Table DDL**

```
CREATE TABLE `REPORTS` (
  `MFGSiteNumber` int NOT NULL,
  `NCRReportNumber` int NOT NULL,
  KEY `MFGSiteNumber_idx` (`MFGSiteNumber`),
  KEY `NCRReportNumber_idx` (`NCRReportNumber`),
  CONSTRAINT `MFGSiteNumber` FOREIGN KEY (`MFGSiteNumber`) REFERENCES
  `MANUFACTURING SITE` (`MFGSiteNo`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `NCRReportNumber` FOREIGN KEY (`NCRReportNumber`) REFERENCES
  `NON CONFORMANCE REPORT` (`NCR#`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

→ **Distributor Table DDL**

```
CREATE TABLE `DISTRIBUTOR` (
  `DistributorID` int NOT NULL,
  `DistributorFname` varchar(45) NOT NULL,
  `DistributorLname` varchar(45) NOT NULL,
  `DistributorAddress` varchar(255) NOT NULL,
  `DateReceived` datetime DEFAULT CURRENT_TIMESTAMP,
  PRIMARY KEY (`DistributorID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

→ **Distributes Table DDL**

```
CREATE TABLE `DISTRIBUTES` (
  `MFGSite#` int NOT NULL,
  `DistributorID` int NOT NULL,
  KEY `MFGSite#_idx` (`MFGSite#`),
  KEY `DistributorID_idx` (`DistributorID`),
  CONSTRAINT `DistributorID` FOREIGN KEY (`DistributorID`) REFERENCES
  `DISTRIBUTOR` (`DistributorID`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `MFGSite#` FOREIGN KEY (`MFGSite#`) REFERENCES `MANUFACTURING
  SITE` (`MFGSiteNo`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

→ **Product Table DDL**

```
CREATE TABLE `PRODUCT` (
  `ProductID` int NOT NULL,
  `ProductName` varchar(150) NOT NULL,
  `ProductMFGDate` datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  `ProductLotNumber` int NOT NULL,
```

```
PRIMARY KEY (`ProductID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

→ **Stores Table DDL**

```
CREATE TABLE `STORES` (
  `DistributorIDNumber` int NOT NULL,
  `ProductID` int NOT NULL,
  KEY `DistributorIDNumber_idx` (`DistributorIDNumber`),
  KEY `ProductID_idx` (`ProductID`),
  CONSTRAINT `DistributorIDNumber` FOREIGN KEY (`DistributorIDNumber`) REFERENCES `DISTRIBUTOR` (`DistributorID`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `ProductID` FOREIGN KEY (`ProductID`) REFERENCES `PRODUCT` (`ProductID`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

→ **Customer Table DDL**

```
CREATE TABLE `CUSTOMER` (
  `CustomerID` int NOT NULL,
  `CustomerAccountCreationDate` datetime NOT NULL,
  PRIMARY KEY (`CustomerID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

→ **Sells Table DDL**

```
CREATE TABLE `SELLS` (
  `DistributorNumber` int NOT NULL,
  `CustomerNumber` int NOT NULL,
  KEY `DistributorNumber_idx` (`DistributorNumber`),
  KEY `CustomerNumber_idx` (`CustomerNumber`),
  CONSTRAINT `CustomerNumber` FOREIGN KEY (`CustomerNumber`) REFERENCES `CUSTOMER` (`CustomerID`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `DistributorNumber` FOREIGN KEY (`DistributorNumber`) REFERENCES `DISTRIBUTOR` (`DistributorID`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

→ **EndUser Table DDL**

```
CREATE TABLE `ENDUSER` (
  `EndUserID` int NOT NULL,
  `EndUserFname` varchar(50) NOT NULL,
  `EndUserLname` varchar(50) NOT NULL,
  `EndUserAddress` varchar(255) NOT NULL,
```

```

`CustomerIDNumber` int NOT NULL,
PRIMARY KEY (`EndUserID`),
KEY `CustomerIDNumber_idx` (`CustomerIDNumber`),
CONSTRAINT `CustomerIDNumber` FOREIGN KEY (`CustomerIDNumber`) REFERENCES
`CUSTOMER` (`CustomerID`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

```

→ **CustomOrder Table DDL**

```

CREATE TABLE `CUSTOMORDER` (
`CO_ID` int NOT NULL,
`CO_Ordered` varchar(255) NOT NULL,
`CO_Specs` varchar(255) NOT NULL,
`CO_DeliveredDate` datetime DEFAULT CURRENT_TIMESTAMP,
`EndUserID` int NOT NULL,
`MFGSiteIDNumber` int NOT NULL,
PRIMARY KEY (`CO_ID`),
KEY `EndUserID_idx` (`EndUserID`),
KEY `MFGSiteIDNumber_idx` (`MFGSiteIDNumber`),
CONSTRAINT `EndUserID` FOREIGN KEY (`EndUserID`) REFERENCES `ENDUSER`(`EndUserID`)
ON DELETE CASCADE ON UPDATE CASCADE,
CONSTRAINT `MFGSiteIDNumber` FOREIGN KEY (`MFGSiteIDNumber`) REFERENCES
`MANUFACTURING SITE` (`MFGSiteNo`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

```

→ **Hospital Table DDL**

```

CREATE TABLE `HOSPITAL` (
`HospitalID` int NOT NULL,
`HospitalFname` varchar(50) NOT NULL,
`HospitalLname` varchar(50) NOT NULL,
`HospitalAddress` varchar(255) NOT NULL,
`CustomerID` int NOT NULL,
PRIMARY KEY (`HospitalID`),
KEY `CustomerID_idx` (`CustomerID`),
CONSTRAINT `CustomerID` FOREIGN KEY (`CustomerID`) REFERENCES `CUSTOMER`(`CustomerID`)
ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

```

→ **Complaint Table DDL**

```

CREATE TABLE `COMPLAINT` (
`ComplaintID` int NOT NULL,
`ComplaintDescription` varchar(500) NOT NULL,

```

```
`Customer#` int NOT NULL,  
PRIMARY KEY (`ComplaintID`),  
KEY `Customer#_idx` (`Customer#`),  
CONSTRAINT `Customer#` FOREIGN KEY (`Customer#`) REFERENCES `CUSTOMER`  
(`CustomerID`) ON DELETE CASCADE ON UPDATE CASCADE  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```