# DBMS Project Report

## Project Title:

E-commerce Database Design using MySQL Workbench

## Introduction:

The purpose of this project was to design a database for an e-commerce platform. The database was designed using MySQL Workbench and the dataset used was mostly randomly generated. The database was designed to store information about customers, administrators, distributors, payments, order tracking, orders, inventory, carts, products, and delivery agents. The sql scripts for the creation of the tables, as well as individual population of the Data are provided In the zip folder.

## Tables:

- **Customer**: This table stored information about the customers who had registered on the e-commerce platform.
- **Admin:** This table stored information about the administrators who were responsible for managing the platform.
- **Distributors:** This table stored information about the distributors who were responsible for delivering products to customers.
- **Payment**: This table stored information about the payment transactions that took place on the platform.
- **Tracking:** This table stored information about the order tracking process, including the order status and delivery status.
- **Order:** This table stored information about the orders that were placed on the platform, including the products ordered, customer information, and payment information.
- **Inventory:** This table stored information about the products that were available in the inventory.
- **Cart**: This table stored information about the products that customers had added to their carts.
- **Product:** This table stored information about the products that were available on the platform.
- **Delivery Agents**: This table stored information about the delivery agents who were responsible for delivering products to customers.

Screenshots of Tables:

```
mysql> select * from administrator
    -> ;
+----------+-------------------+----------------+
| admin_ID | admin_name        | admin_password |
+----------+-------------------+----------------+
|        1 | Dhuleep Ranganekary | mirbane      |
|        2 | Hala Chetti       | unmuzzle       |
|        3 | Ganesh Bhatta     | moundsmen      |
|        4 | Chakravarti Thacker | hypostasise  |
|        5 | Asha Harish       | misentry       |
|        6 | Dhule Roychaudhuri | sacramentalis |
|        7 | Sharya Bhardvaj   | suggest        |
|        8 | Sharya Bhardvaj   | consanguineous |
|        9 | Daas Ayyangar     | monophthong    |
|       10 | Ishwar Chipalunakar | antiattrition |
+----------+-------------------+----------------+
10 rows in set (0.00 sec)
```

```
mysql> select * from agents
    -> ;
+----------+----------------+----------+
| Agent_ID | Contact_Number | Order_ID |
+----------+----------------+----------+
|        1 | (869) 925-5462 |       20 |
|        2 | (531) 743-3726 |       51 |
|        3 | (831) 845-7405 |       93 |
|        4 | (883) 357-6053 |       76 |
|        5 | (687) 297-5151 |       91 |
|        6 | (333) 786-4377 |       61 |
|        7 | (711) 148-6933 |       14 |
|        8 | (621) 242-6325 |       46 |
|        9 | (562) 655-2281 |       90 |
|       10 | (237) 255-2431 |       32 |
|       11 | (915) 661-9346 |       58 |
|       12 | (819) 906-8925 |       63 |
|       13 | (804) 419-5166 |       58 |
|       14 | (652) 241-2406 |       55 |
|       15 | (217) 982-7740 |        3 |
|       16 | (880) 486-3605 |       19 |
|       17 | (364) 872-2919 |      100 |
|       18 | (708) 603-8683 |        4 |
|       19 | (628) 393-6739 |       86 |
|       20 | (817) 312-2347 |       84 |
|       21 | (462) 824-3883 |       81 |
|       22 | (810) 625-1608 |       35 |
|       23 | (698) 417-2325 |       71 |
|       24 | (576) 815-5096 |       62 |
|       25 | (961) 386-1265 |       91 |
|       26 | (953) 250-5262 |       49 |
|       27 | (493) 626-8904 |       59 |
|       28 | (390) 295-1869 |       90 |
|       29 | (209) 268-4465 |       70 |
|       30 | (227) 853-5585 |       81 |
|       31 | (429) 434-2087 |       29 |
|       32 | (494) 772-5647 |       68 |
|       33 | (240) 716-0764 |       40 |
|       34 | (716) 138-0890 |       73 |
|       35 | (553) 608-6958 |       13 |
|       36 | (387) 585-0558 |        8 |
```

```
mysql> select * from cart
    -> ;
+------------+--------+
| Product_ID | Amount |
+------------+--------+
|         20 |      9 |
|         23 |      4 |
|          2 |      9 |
|         97 |      4 |
|         42 |      7 |
|         98 |      1 |
|         85 |     10 |
|         53 |      3 |
|         41 |      8 |
|         30 |      8 |
|         63 |     10 |
|         23 |      9 |
|         31 |      8 |
|         13 |      5 |
|         49 |      7 |
|         90 |      8 |
|         13 |      7 |
|         45 |      5 |
|         64 |     10 |
|          7 |      4 |
+------------+--------+
20 rows in set (0.00 sec)
```

```
mysql> select * from customer;
+-------------+----------------------------------------+---------------+------------------+----------------------------------------+
| Customer_ID | Customer_Email                         | Customer_name | Customer_Contact | Customer_Address                       |
+-------------+----------------------------------------+---------------+------------------+----------------------------------------+
|           1 | eleifend@protonmail.couk               | Jaden         | 1-854-448-2771   | Ap #414-4094 Elit. Rd.                 |
|           2 | risus@hotmail.net                      | Cecilia       | 762-7371         | Ap #416-7294 Dictum St.                |
|           3 | egestas.a@icloud.org                   | Acton         | 808-6613         | 8744 Praesent St.                      |
|           4 | vitae@yahoo.com                        | Elijah        | 1-875-712-2392   | Ap #223-3497 Imperdiet, St.            |
|           5 | donec@google.org                       | Wendy         | 636-1864         | Ap #504-8416 Metus. Rd.                |
|           6 | massa.integer.vitae@hotmail.couk       | Donovan       | 349-6620         | 7054 A St.                             |
|           7 | porttitor.tellus.non@protonmail.net    | Vanna         | 471-8360         | Ap #537-3193 Mollis Road               |
|           8 | penatibus.et@icloud.edu                | Cathleen      | 1-326-797-7078   | P.O. Box 915, 6702 Hendrerit St.       |
|           9 | purus.nullam@protonmail.com            | Amir          | 405-8616         | 3172 Interdum St.                      |
|          10 | vulputate.lacus.cras@outlook.net       | Joy           | 1-274-520-4717   | P.O. Box 909, 2386 Ultrices Ave        |
|          11 | magnis@google.ca                       | Indigo        | 541-0911         | P.O. Box 367, 206 Nisi Av.             |
|          12 | aptent@outlook.couk                    | Liberty       | 1-232-806-4877   | 685-9067 Mi Avenue                     |
|          13 | odio.sagittis.semper@google.com        | Vanna         | 1-762-271-5327   | Ap #671-5453 Nullam Rd.                |
|          14 | nec.mollis.vitae@protonmail.org        | Ciara         | 1-543-596-8481   | 9941 Malesuada Av.                     |
|          15 | erat@google.edu                        | Ira           | 711-5804         | P.O. Box 661, 4468 Tortor. Road        |
|          16 | ultrices.iaculis@aol.couk              | Ray           | 941-6705         | Ap #770-3687 Morbi St.                 |
|          17 | lorem.fringilla@yahoo.couk             | Jescie        | 1-671-954-8956   | 467-6112 Nisi. St.                     |
|          18 | tincidunt.congue.turpis@yahoo.org      | Arsenio       | 1-413-329-7446   | 470-5629 Ultrices. Avenue              |
|          19 | nam.ac@hotmail.edu                     | Palmer        | 922-5321         | P.O. Box 618, 4878 Tortor Avenue       |
|          20 | mi.enim@protonmail.net                 | Ursa          | 768-3394         | 341-8684 Commodo Road                  |
|          21 | urna.suscipit@outlook.couk             | Cathleen      | 384-8333         | P.O. Box 258, 9864 Accumsan Street     |
|          22 | donec.tempus@yahoo.org                 | Gwendolyn     | 1-803-518-7753   | 2171 Vitae, Rd.                        |
|          23 | mauris.ipsum.porta@hotmail.org         | Hyacinth      | 401-1371         | P.O. Box 348, 2504 Odio Ave            |
|          24 | tincidunt.neque@outlook.edu            | Dorothy       | 402-0871         | 789-2483 Velit. St.                    |
|          25 | rhoncus.proin@yahoo.net                | Cooper        | 845-5713         | P.O. Box 185, 6150 Ut St.              |
|          26 | eu.ligula@google.org                   | Nero          | 651-1686         | 992-5713 Phasellus Ave                 |
|          27 | mauris.magna.duis@google.com           | Yoko          | 224-5558         | 7495 Praesent St.                      |
|          28 | lacinia.vitae.sodales@icloud.couk      | Kyla          | 674-2849         | Ap #133-3915 Nibh. Ave                 |
|          29 | vehicula.aliquet@hotmail.ca            | Chester       | 1-492-218-6868   | 599-8214 Aliquam St.                   |
|          30 | at@yahoo.net                           | Tate          | 606-6650         | 913-6177 Varius Street                 |
|          31 | pellentesque@hotmail.edu               | Pandora       | 892-1121         | 743-2127 Sem Rd.                       |
|          32 | metus@aol.couk                         | Marvin        | 316-9435         | Ap #880-6579 Aliquet Ave               |
|          33 | magna.sed@icloud.com                   | Mercedes      | 381-2250         | 4735 In, Road                          |
```

```
mysql> select * from distributors;
+----------------+--------------------------------------+--------------------------------------+
| distributor_ID | location                             | email                                |
+----------------+--------------------------------------+--------------------------------------+
|              1 | 792-1990 Nunc Road                   | orci.adipiscing.non@protonmail.net   |
|              2 | 198-3119 Ac St.                      | nullam.vitae@protonmail.couk         |
|              3 | Ap #366-1495 Mi. Street              | donec.dignissim@aol.com              |
|              4 | Ap #214-5960 Sit Ave                 | dapibus.quam.quis@google.edu         |
|              5 | 2690 Metus. St.                      | est.mollis@icloud.couk               |
|              6 | 8482 Non Rd.                         | mi.enim.condimentum@protonmail.edu   |
|              7 | Ap #599-6254 Iaculis Av.             | curae.phasellus@google.ca            |
|              8 | P.O. Box 921, 8690 Augue, Ave        | condimentum.donec@google.couk        |
|              9 | 744-4294 Nisi Street                 | quis@google.net                      |
|             10 | P.O. Box 732, 7974 Risus. Rd.        | magna.et.ipsum@yahoo.net             |
|             11 | Ap #423-5527 Lorem, Rd.              | sit.amet@protonmail.edu              |
|             12 | 896-9890 Sed St.                     | sit.amet@aol.edu                     |
|             13 | Ap #284-2426 Vel Av.                 | dictum.eu@hotmail.net                |
|             14 | 6528 Blandit Road                    | porttitor.scelerisque@aol.edu        |
|             15 | 817-668 At, Rd.                      | orci@protonmail.couk                 |
|             16 | P.O. Box 577, 3054 Pellentesque St.  | sed.tortor.integer@google.couk       |
|             17 | 2137 Ipsum. Avenue                   | fusce.dolor.quam@outlook.ca          |
|             18 | 892-7228 Dapibus Road                | et.lacinia.vitae@protonmail.org      |
|             19 | Ap #686-3310 Nec Avenue              | metus.facilisis.lorem@icloud.couk    |
|             20 | 756-2911 Libero St.                  | dolor.quam@icloud.ca                 |
|             21 | P.O. Box 429, 7148 Erat Road         | duis.a@hotmail.couk                  |
|             22 | 682-6860 Duis St.                    | nec.mauris@protonmail.com            |
|             23 | 501-2685 Risus Av.                   | tincidunt.nibh@hotmail.net           |
|             24 | 850-7336 Nec Street                  | risus@yahoo.com                      |
|             25 | 9262 Aliquet. St.                    | libero.est@yahoo.org                 |
|             26 | 356-8044 Urna. Av.                   | aliquet@outlook.ca                   |
|             27 | 668-2826 Duis Street                 | aenean.sed@outlook.ca                |
|             28 | P.O. Box 390, 2150 A, St.            | pretium.et@yahoo.edu                 |
|             29 | 167-3266 Nam Avenue                  | nulla.ante@outlook.couk              |
|             30 | 591-2031 Varius Street               | eu.nulla.at@aol.edu                  |
|             31 | Ap #491-3509 Odio. Ave               | malesuada.fames@google.com           |
```

```
mysql> select * from inventory;
+------------+----------+
| Product_ID | Quantity |
+------------+----------+
|          1 |     3726 |
|          2 |     4260 |
|          3 |     2017 |
|          4 |     2513 |
|          5 |      270 |
|          6 |     3766 |
|          7 |     4199 |
|          8 |     3504 |
|          9 |     4954 |
|         10 |      392 |
|         11 |     3259 |
|         12 |     3094 |
|         13 |     2374 |
|         14 |     2706 |
|         15 |     3257 |
|         16 |     2897 |
|         17 |      713 |
|         18 |      449 |
|         19 |     1929 |
|         20 |     3867 |
|         21 |     2640 |
|         22 |     1645 |
|         23 |     2640 |
|         24 |      811 |
|         25 |       85 |
|         26 |     1642 |
|         27 |     4726 |
|         28 |     2773 |
|         29 |     2338 |
|         30 |     3884 |
|         31 |     4324 |
```

```
mysql> select * from orders;
+----------+--------+-------------+------------+---------------+
| Order_ID | Amount | Customer_ID | Order_Date | Delivery_Date |
+----------+--------+-------------+------------+---------------+
|        1 |   9674 |          61 | 2022-02-03 | 2022-02-05    |
|        2 |   5329 |          40 | 2022-01-30 | 2022-01-30    |
|        3 |   1397 |          89 | 2022-02-05 | 2022-02-05    |
|        4 |   8485 |          35 | 2022-01-17 | 2022-01-17    |
|        5 |   4514 |          11 | 2022-01-21 | 2022-01-21    |
|        6 |   4290 |          48 | 2022-01-15 | 2022-01-15    |
|        7 |   4820 |          82 | 2022-01-13 | 2022-01-13    |
|        8 |   6910 |          30 | 2022-01-16 | 2022-01-16    |
|        9 |   1290 |          91 | 2022-01-21 | 2022-01-21    |
|       10 |   2460 |          43 | 2022-01-15 | 2022-01-15    |
|       11 |   8339 |          85 | 2022-01-22 | 2022-01-22    |
|       12 |   1097 |          29 | 2022-01-29 | 2022-01-29    |
|       13 |    704 |          73 | 2022-02-04 | 2022-02-04    |
|       14 |   8580 |         100 | 2022-01-29 | 2022-01-29    |
|       15 |    314 |          50 | 2022-01-23 | 2022-01-23    |
|       16 |   9604 |           9 | 2022-01-28 | 2022-01-28    |
|       17 |    277 |           6 | 2022-01-13 | 2022-01-13    |
|       18 |   3297 |          42 | 2022-01-13 | 2022-01-13    |
|       19 |   3894 |          82 | 2022-01-15 | 2022-01-15    |
|       20 |   1036 |          58 | 2022-01-22 | 2022-01-22    |
|       21 |    658 |          95 | 2022-02-02 | 2022-02-02    |
|       22 |   8912 |         100 | 2022-01-13 | 2022-01-13    |
|       23 |   2017 |          52 | 2022-02-06 | 2022-02-06    |
|       24 |   2039 |          51 | 2022-01-19 | 2022-01-19    |
|       25 |    849 |          59 | 2022-01-23 | 2022-01-23    |
|       26 |   7219 |          13 | 2022-01-17 | 2022-01-17    |
|       27 |   8348 |          57 | 2022-01-19 | 2022-01-19    |
|       28 |   8493 |          86 | 2022-02-03 | 2022-02-03    |
|       29 |   8766 |          59 | 2022-01-14 | 2022-01-14    |
|       30 |   7837 |          22 | 2022-01-21 | 2022-01-21    |
|       31 |   1640 |          32 | 2022-02-04 | 2022-02-04    |
|       32 |   8021 |          61 | 2022-01-18 | 2022-01-18    |
```

```
mysql> select * from payment;
+------------+----------+----------+--------------+--------------+
| Payment_ID | Status   | Order_ID | Payment_Date | Payment_Method |
+------------+----------+----------+--------------+--------------+
|          1 | Accepted |       63 | 2022-01-30   | Net Banking  |
|          2 | Accepted |       13 | 2022-02-05   | Net Banking  |
|          3 | Rejected |       82 | 2022-01-17   | Card         |
|          4 | Rejected |       84 | 2022-02-02   | Net Banking  |
|          5 | Rejected |       29 | 2022-01-21   | Net Banking  |
|          6 | Accepted |       14 | 2022-01-15   | Net Banking  |
|          7 | Rejected |       83 | 2022-01-13   | Card         |
|          8 | Accepted |        7 | 2022-01-16   | Cash         |
|          9 | Accepted |       15 | 2022-01-21   | Card         |
|         10 | Rejected |       52 | 2022-01-15   | Cash         |
|         11 | Rejected |       53 | 2022-01-22   | Net Banking  |
|         12 | Accepted |       11 | 2022-01-29   | Net Banking  |
|         13 | Accepted |      100 | 2022-02-04   | Card         |
|         14 | Accepted |       42 | 2022-01-29   | UPI          |
|         15 | Rejected |       35 | 2022-01-23   | Card         |
|         16 | Rejected |       90 | 2022-01-28   | Net Banking  |
|         17 | Accepted |       65 | 2022-01-13   | Net Banking  |
|         18 | Rejected |        7 | 2022-01-13   | Net Banking  |
|         19 | Rejected |       34 | 2022-01-15   | UPI          |
|         20 | Accepted |       43 | 2022-01-22   | Card         |
|         21 | Accepted |       64 | 2022-02-02   | Card         |
|         22 | Rejected |       50 | 2022-01-13   | UPI          |
|         23 | Accepted |       42 | 2022-02-06   | Cash         |
|         24 | Accepted |       27 | 2022-01-19   | UPI          |
|         25 | Accepted |        6 | 2022-01-23   | UPI          |
|         26 | Accepted |       15 | 2022-01-17   | Card         |
|         27 | Rejected |        7 | 2022-01-19   | Card         |
|         28 | Rejected |       15 | 2022-02-03   | UPI          |
```

```
mysql> select * from products;
+------------+----------------+--------+---------------+
| product_id | product_name   | price  | distributor_ID |
+------------+----------------+--------+---------------+
|          1 | Brown Bread    | 250.55 |            61 |
|          2 | White Bread    | 404.78 |            53 |
|          3 | Eggs           | 563.48 |            30 |
|          4 | Oat Milk       | 131.32 |            15 |
|          5 | Whole Milk     | 525.45 |            56 |
|          6 | Skimmed Milk   | 494.56 |            17 |
|          7 | phone          | 625.34 |            14 |
|          8 | mouse          | 442.54 |            87 |
|          9 | laptop         | 796.19 |            53 |
|         10 | spectacles     | 943.25 |            83 |
|         11 | keyboard       | 569.50 |            20 |
|         12 | vape           | 125.71 |            32 |
|         13 | switch         | 638.45 |            41 |
|         14 | monitor        | 748.13 |            19 |
|         15 | synth enhancer | 884.56 |            14 |
|         16 | bottles        |  41.26 |            36 |
|         17 | mic            | 228.96 |            22 |
|         18 | air purifier   | 247.90 |            46 |
|         19 | water purifier | 827.55 |            60 |
|         20 | notebooks      | 863.36 |            69 |
|         21 | blue pen       | 782.24 |            51 |
|         22 | black pen      | 508.43 |            61 |
|         23 | red pen        | 956.57 |            82 |
|         24 | pencil         | 946.95 |            35 |
|         25 | curtains       | 149.69 |            97 |
|         26 | table          | 933.22 |            18 |
|         27 | mirror         | 537.15 |            55 |
|         28 | tubelight      | 239.65 |             5 |
|         29 | handwash       | 776.66 |            49 |
|         30 | basket         | 667.44 |            20 |
|         31 | buscuit        | 267.68 |            26 |
|         32 | kurkure        | 614.75 |            22 |
|         33 | lays           | 728.96 |            60 |
|         34 | pendrive       | 725.66 |             5 |
|         35 | watch          | 113.05 |            65 |
|         36 | shirt          | 758.09 |            35 |
|         37 | pants          | 408.73 |            33 |
|         38 | t-shirts       |  96.72 |            57 |
```

```
mysql> select * from tracking;
+-----------------+-----------+----------+
| Tracking_Number | Status    | Order_ID |
+-----------------+-----------+----------+
|               1 | Delivered |       88 |
|               2 | Rejected  |       68 |
|               3 | Accepted  |       89 |
|               4 | Rejected  |       27 |
|               5 | Shipping  |       42 |
|               6 | Rejected  |       79 |
|               7 | Rejected  |       51 |
|               8 | Accepted  |       23 |
|               9 | Placed    |       81 |
|              10 | Rejected  |       92 |
|              11 | Rejected  |       52 |
|              12 | Rejected  |       46 |
|              13 | Dispached |       58 |
|              14 | Accepted  |        7 |
|              15 | Rejected  |       12 |
|              16 | Placed    |       75 |
|              17 | Delivered |       24 |
|              18 | Rejected  |       47 |
|              19 | Accepted  |       84 |
|              20 | Delivered |       39 |
|              21 | Placed    |       95 |
|              22 | Rejected  |       93 |
|              23 | Dispached |       50 |
|              24 | Rejected  |       76 |
|              25 | Accepted  |       56 |
|              26 | Placed    |       57 |
|              27 | Dispached |       37 |
|              28 | Rejected  |       61 |
|              29 | Dispached |       75 |
|              30 | Dispached |       56 |
|              31 | Rejected  |       36 |
|              32 | Rejected  |        2 |
|              33 | Accepted  |       30 |
|              34 | Shipping  |       31 |
|              35 | Dispached |       73 |
|              36 | Rejected  |       62 |
|              37 | Delivered |       80 |
```