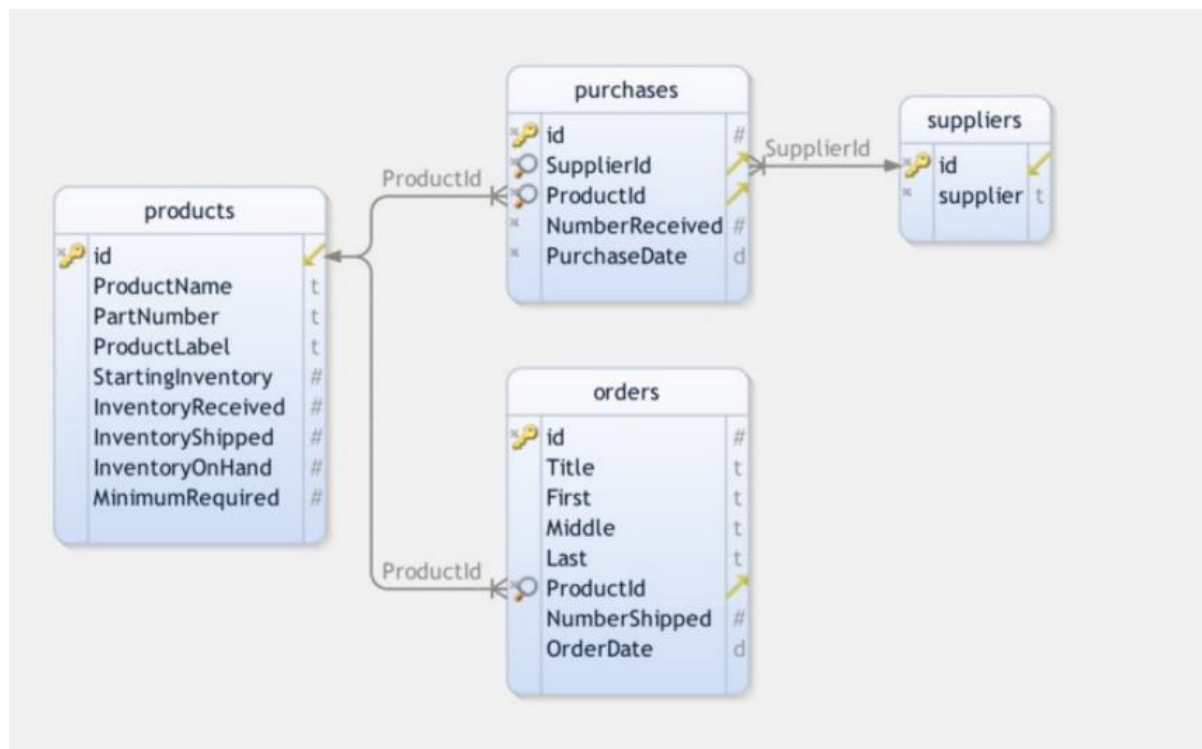# Project on MySQL

The aim of this project is to create an inventory system, refer to the diagram above to create my data base.

The diagram shows the number of tables along with the relationship between tables.

We need required to create the system with proper tables along with their relationship. We are also required to put in around dummy data inside the table so as to get some insights.

I will provide all querys & screenshot of tables,records below this page.

- To Create Suppliers Table :

```
4  • ⊖  CREATE TABLE SUPPLIERS(
5         SUPPLIER_ID INT NOT NULL,
6         SUPPLIER_NAME VARCHAR(225),
7         PRIMARY KEY(SUPPLIER_ID)
8      );
```

- Desc Suppliers Table :

```
mysql> DESC SUPPLIERS;
+---------------+--------------+------+-----+---------+-------+
| Field         | Type         | Null | Key | Default | Extra |
+---------------+--------------+------+-----+---------+-------+
| SUPPLIER_ID   | int          | NO   | PRI | NULL    |       |
| SUPPLIER_NAME | varchar(225) | YES  |     | NULL    |       |
+---------------+--------------+------+-----+---------+-------+
2 rows in set (0.00 sec)
```

- Insert Records in Suppliers Table :

```
39
40  •    INSERT INTO SUPPLIERS (SUPPLIER_ID,SUPPLIER_NAME)
41       VALUES
42       (1,'ShockWave Tech'),(2,'CDW'),
43       (3,'Acme Tech'),(4,'CloudTail'),
44       (5,'Alpha Seller'),(6,'Foo Bars'),
45       (7,'ABC Telecom'),(8,'Smith and Co');
```

- Suppliers Table with records :

```
mysql>
mysql> select * from suppliers;
+-------------+----------------+
| SUPPLIER_ID | SUPPLIER_NAME  |
+-------------+----------------+
|           1 | ShockWave Tech |
|           2 | CDW            |
|           3 | Acme Tech      |
|           4 | CloudTail      |
|           5 | Alpha Seller   |
|           6 | Foo Bars       |
|           7 | ABC Telecom    |
|           8 | Smith and Co   |
+-------------+----------------+
8 rows in set (0.00 sec)
```

- To Create Products Table :

```
 6  ● ⊖ CREATE TABLE PRODUCTS(
 7        PRODUCT_ID INT NOT NULL,
 8        PRODUCT_NAME VARCHAR(225),
 9        PART_NUMBER VARCHAR(255),
10        PRODUCT_LABEL VARCHAR(225),
11        STARTING_INVENTORY VARCHAR(255),
12        INVENTORY_RECEIVED INT,
13        INVENTORY_SHIPPED INT,
14        INVENTORY_ON_HAND VARCHAR(255),
15        MINIMUM_REQUIRED INT,
16        PRIMARY KEY(PRODUCT_ID));
17
```

- Desc Products Table :

```
mysql>
mysql> desc products;
+--------------------+---------------+------+-----+---------+-------+
| Field              | Type          | Null | Key | Default | Extra |
+--------------------+---------------+------+-----+---------+-------+
| PRODUCT_ID         | int           | NO   | PRI | NULL    |       |
| PRODUCT_NAME       | varchar(225)  | YES  |     | NULL    |       |
| PART_NUMBER        | varchar(255)  | YES  |     | NULL    |       |
| PRODUCT_LABEL      | varchar(225)  | YES  |     | NULL    |       |
| STARTING_INVENTORY | varchar(255)  | YES  |     | NULL    |       |
| INVENTORY_RECEIVED | int           | YES  |     | NULL    |       |
| INVENTORY_SHIPPED  | int           | YES  |     | NULL    |       |
| INVENTORY_ON_HAND  | varchar(255)  | YES  |     | NULL    |       |
| MINIMUM_REQUIRED   | int           | YES  |     | NULL    |       |
+--------------------+---------------+------+-----+---------+-------+
9 rows in set (0.00 sec)
```

- **Insert Records in Products Table :**

```
56
57 ❌    INSERT INTO PRODUCTS (PRODUCT_ID,PRODUCT_NAME,PART_NUMBER,PRODUCT_LABEL,STARTING_INVENTORY,INVENTORY_RECEIVED,INVENTORY_SHIPPED,INVENTORY_ON_HAND,MINIMUM_REQUIRED)
58      VALUES
59      (1001,'Dell Server','XP 2000','Dell Server-XP 2000','100,007',35,25,'100,017',15),
60      (1002,'Google ChromeBooks','1','Google Chromebooks-1.0','100',75,654,'-479',20),
61      (1003,'Cisco Router','10X','Cisco Router-10X','45',143,76,'86',88),
62      (1004,'Sadasd','21','Sadasd-21','25',0,0,'25',10),
63      (1005,'Semih','37','Semih-37','1',12,5,'8',5),
64      (1006,'Wipro','22','Wipro-22','32',256,10,'85',20),
65      (1007,'Cognizant It','WP 2001','Cognizant-WP 3000','210',65,350,'-550',28),
66      (1008,'TATA Consultant','MWP 24','TATA Consultant-MWP 2.05','28',670,50,'398',5),
67      (1009,'MicroSoft Technology','AWS 2.50','MicroSoft Technology-AWS 6000','3',95,957,'65',35),
68      (1010,'It Vedant','85','It Vedant-85','8',256,07,'-125',9),
69      (1011,'It Departement','2','It Departement-2','20',97,170,'65',16),
70      (1012,'Aditya Birla Group','AWP 1000','Aditya Birla Group-AWS 1000','250,700',258,957,'678',82),
71      (1013,'IBM Techno','CWD 2.50','IBM Techno-CWD 2.50','3',258,33,'297',250),
72      (1014,'Au Small Finance','AUS 35.2','Au Small Finance-AUS 35.2','35',35,135,'13.56',980),
73      (1015,'Axis Bank','125-AXS','Axis Bank 125-AXS','03',330,957,'65',35),
74      (1016,'Future It Company','123','Future It Company 123','102',65,350,'-368',28),
75      (1017,'Bajaj It Finance','FT-320','Bajaj It Finance FT-320','330',651,89,'1002',230),
76      (1018,'All Native Designs','3502','All Native Designs 3502','25',615,980,'678',38),
77      (1019,'Cards Crafty','35-CC','Cards Crafty 35-CC','989',250,68,'6548',230),
78      (1020,'Code That Speaks','CTS 2587','Code That Speaks-CTS 2587','232,52',890,32,'-56',355),
79      (1021,'BNL Programmers','BP-320','BNL Programmers BP-320','35',516,98,'356',96),
80      (1022,'Bridger Data Solutions','BDS-290','Bridger Data Solutions BDS-290','65',87,21,'13',9),
81      (1023,'Code Red Technology','CRT-98','Code Red Technology CRT-98','303',361,250,'6589',320),
82      (1024,'Software Island','6598','Software Island 6598','26',34,608,'-6931',25),
83      (1025,'Cool Source Code','CSC-390','Cool Source Code CSC-390','35',254,18,'56',205),
84      (1026,'Cryptical Coders','CO-5687','Cryptical Coders CO-5687','105',98,188,'560',20),
85      (1027,'Cryptware Tech International','CTI-305','Cryptware Tech International CTI-305','3',2,25,'352',8),
86      (1028,'ICT Systems','ICT-7854','ICT Systems ICT-7854','09',989,18,'1250',95),
87      (1029,'Soften Software House','SSH-12','Soften Software House SSH-12','1050',989,850,'356',105),
88      (1030,'Genetech Solutions','GS-540','Genetech Solutions GS-450','32',660,80,'5601',56);
```

- **Products Table with Records :**

```
mysql>
mysql>
mysql> select * from products;

+------------+-----------------------------+-------------+--------------------------------------+--------------------+--------------------+-------------------+-------------------+------------------+
| PRODUCT_ID | PRODUCT_NAME                | PART_NUMBER | PRODUCT_LABEL                        | STARTING_INVENTORY | INVENTORY_RECEIVED | INVENTORY_SHIPPED | INVENTORY_ON_HAND | MINIMUM_REQUIRED |
+------------+-----------------------------+-------------+--------------------------------------+--------------------+--------------------+-------------------+-------------------+------------------+
|       1001 | Dell Server                 | XP 2000     | Dell Server-XP 2000                  | 100,007            |                 35 |                25 | 100,017           |               15 |
|       1002 | Google ChromeBooks          | 1           | Google Chromebooks-1.0               | 100                |                 75 |               654 | -479              |               20 |
|       1003 | Cisco Router                | 10X         | Cisco Router-10X                     | 45                 |                143 |                76 | 86                |               88 |
|       1004 | Sadasd                      | 21          | Sadasd-21                            | 25                 |                  0 |                 0 | 25                |               10 |
|       1005 | Semih                       | 37          | Semih-37                             | 1                  |                 12 |                 5 | 8                 |                5 |
|       1006 | Wipro                       | 22          | Wipro-22                             | 32                 |                256 |                10 | 85                |               20 |
|       1007 | Cognizant It                | WP 2001     | Cognizant-WP 3000                    | 210                |                 65 |               350 | -550              |               28 |
|       1008 | TATA Consultant             | MWP 24      | TATA Consultant-MWP 2.05             | 28                 |                670 |                50 | 398               |                5 |
|       1009 | MicroSoft Technology        | AWS 2.50    | MicroSoft Technology-AWS 6000        | 3                  |                 95 |               957 | 65                |               35 |
|       1010 | It Vedant                   | 85          | It Vedant-85                         | 8                  |                256 |                 7 | -125              |                9 |
|       1011 | It Departement              | 2           | It Departement-2                     | 20                 |                 97 |               170 | 65                |               16 |
|       1012 | Aditya Birla Group          | AWP 1000    | Aditya Birla Group-AWS 1000          | 250,700            |                258 |               957 | 678               |               82 |
|       1013 | IBM Techno                  | CWD 2.50    | IBM Techno-CWD 2.50                  | 3                  |                258 |                33 | 297               |              250 |
|       1014 | Au Small Finance            | AUS 35.2    | Au Small Finance-AUS 35.2            | 35                 |                 35 |               135 | 13.56             |              980 |
|       1015 | Axis Bank                   | 125-AXS     | Axis Bank 125-AXS                    | 03                 |                330 |               957 | 65                |               35 |
|       1016 | Future It Company           | 123         | Future It Company 123                | 102                |                 65 |               350 | -368              |               28 |
|       1017 | Bajaj It Finance            | FT-320      | Bajaj It Finance FT-320              | 330                |                651 |                89 | 1002              |              230 |
|       1018 | All Native Designs          | 3502        | All Native Designs 3502              | 25                 |                615 |               980 | 678               |               38 |
|       1019 | Cards Crafty                | 35-CC       | Cards Crafty 35-CC                   | 989                |                250 |                68 | 6548              |              230 |
|       1020 | Code That Speaks            | CTS 2587    | Code That Speaks-CTS 2587            | 232,52             |                890 |                32 | -56               |              355 |
|       1021 | BNL Programmers             | BP-320      | BNL Programmers BP-320               | 35                 |                516 |                98 | 356               |               96 |
|       1022 | Bridger Data Solutions      | BDS-290     | Bridger Data Solutions BDS-290       | 65                 |                 87 |                21 | 13                |                9 |
|       1023 | Code Red Technology         | CRT-98      | Code Red Technology CRT-98           | 303                |                361 |               250 | 6589              |              320 |
|       1024 | Software Island             | 6598        | Software Island 6598                 | 26                 |                 34 |               608 | -6931             |               25 |
|       1025 | Cool Source Code            | CSC-390     | Cool Source Code CSC-390             | 35                 |                254 |                18 | 56                |              205 |
|       1026 | Cryptical Coders            | CO-5687     | Cryptical Coders CO-5687             | 105                |                 98 |               188 | 560               |               20 |
|       1027 | Cryptware Tech International | CTI-305     | Cryptware Tech International CTI-305  | 3                  |                  2 |                25 | 352               |                8 |
|       1028 | ICT Systems                 | ICT-7854    | ICT Systems ICT-7854                 | 09                 |                989 |                18 | 1250              |               95 |
|       1029 | Soften Software House       | SSH-12      | Soften Software House SSH-12         | 1050               |                989 |               850 | 356               |              105 |
|       1030 | Genetech Solutions          | GS-540      | Genetech Solutions GS-450            | 32                 |                660 |                80 | 5601              |               56 |
+------------+-----------------------------+-------------+--------------------------------------+--------------------+--------------------+-------------------+-------------------+------------------+
30 rows in set (0.00 sec)
```

- To Create Purchases Table :

```
18 • ⊖ CREATE TABLE PURCHASES(
19       PURCHASE_ID INT NOT NULL,
20       SUPPLIER_ID INT NOT NULL,
21       PRODUCT_ID INT NOT NULL,
22       NUMBER_RECEIVED INT NOT NULL,
23       PURCHASE_DATE VARCHAR(225),
24       PRIMARY KEY(PURCHASE_ID),
25       FOREIGN KEY(SUPPLIER_ID) REFERENCES SUPPLIERS(SUPPLIER_ID),
26     └ FOREIGN KEY(PRODUCT_ID) REFERENCES PRODUCTS(PRODUCT_ID));
27
```

- Desc Purchases Table :

```
mysql> desc purchases;
+-----------------+--------------+------+-----+---------+-------+
| Field           | Type         | Null | Key | Default | Extra |
+-----------------+--------------+------+-----+---------+-------+
| PURCHASE_ID     | int          | NO   | PRI | NULL    |       |
| SUPPLIER_ID     | int          | NO   | MUL | NULL    |       |
| PRODUCT_ID      | int          | NO   | MUL | NULL    |       |
| NUMBER_RECEIVED | int          | NO   |     | NULL    |       |
| PURCHASE_DATE   | varchar(225) | YES  |     | NULL    |       |
+-----------------+--------------+------+-----+---------+-------+
5 rows in set (0.01 sec)
```

- Insert Records in Purchases Table :

```
124
125 •   INSERT INTO PURCHASES (PURCHASE_ID,SUPPLIER_ID,PRODUCT_ID,NUMBER_RECEIVED,PURCHASE_DATE)
126     VALUES
127     (101,8,1021,15,'2003-12-06'),(102,2,1009,20,'2004-02-24'),(103,5,1024,77,'2005-04-25'),
128     (104,1,1030,61,'2017-03-10'),(105,3,1015,42,'2009-07-14'),(106,6,1014,18,'2010-06-08'),
129     (107,7,1011,72,'2015-10-07'),(108,4,1029,66,'2020-11-02'),(109,6,1022,87,'2016-01-01'),
130     (110,8,1013,19,'2012-10-28'),(111,4,1003,5,'2006-02-17'),(112,7,1002,81,'2016-01-23'),
131     (113,5,1008,76,'2022-06-26'),(114,3,1020,84,'2002-12-15'),(115,2,1012,93,'2014-09-18'),
132     (116,1,1005,105,'2018-07-13'),(117,2,1019,101,'2011-11-11'),(118,8,1001,94,'2019-03-29'),
133     (119,4,1002,59,'2008-05-09'),(120,5,1007,31,'2021-08-19'),(121,7,1026,120,'2001-04-22'),
134     (122,6,1027,37,'2007-06-05'),(123,3,1023,102,'2022-02-20'),(124,1,1016,132,'2009-04-04'),
135     (125,4,1017,120,'2010-07-21'),(126,7,1010,95,'2016-12-16'),(127,6,1004,104,'2003-11-12'),
136     (128,2,1018,43,'2001-09-03'),(129,5,1006,10,'2014-05-27'),(130,8,1025,145,'2018-10-02');
137
```

- Purchases Table with Records :

```
mysql> select * from purchases;
+-------------+-------------+------------+-----------------+---------------+
| PURCHASE_ID | SUPPLIER_ID | PRODUCT_ID | NUMBER_RECEIVED | PURCHASE_DATE |
+-------------+-------------+------------+-----------------+---------------+
|         101 |           8 |       1021 |              15 | 2003-12-06    |
|         102 |           2 |       1009 |              20 | 2004-02-24    |
|         103 |           5 |       1024 |              77 | 2005-04-25    |
|         104 |           1 |       1030 |              61 | 2017-03-10    |
|         105 |           3 |       1015 |              42 | 2009-07-14    |
|         106 |           6 |       1014 |              18 | 2010-06-08    |
|         107 |           7 |       1011 |              72 | 2015-10-07    |
|         108 |           4 |       1029 |              66 | 2020-11-02    |
|         109 |           6 |       1022 |              87 | 2016-01-01    |
|         110 |           8 |       1013 |              19 | 2012-10-28    |
|         111 |           4 |       1003 |               5 | 2006-02-17    |
|         112 |           7 |       1002 |              81 | 2016-01-23    |
|         113 |           5 |       1008 |              76 | 2022-06-26    |
|         114 |           3 |       1020 |              84 | 2002-12-15    |
|         115 |           2 |       1012 |              93 | 2014-09-18    |
|         116 |           1 |       1005 |             105 | 2018-07-13    |
|         117 |           2 |       1019 |             101 | 2011-11-11    |
|         118 |           8 |       1001 |              94 | 2019-03-29    |
|         119 |           4 |       1002 |              59 | 2008-05-09    |
|         120 |           5 |       1007 |              31 | 2021-08-19    |
|         121 |           7 |       1026 |             120 | 2001-04-22    |
|         122 |           6 |       1027 |              37 | 2007-06-05    |
|         123 |           3 |       1023 |             102 | 2022-02-20    |
|         124 |           1 |       1016 |             132 | 2009-04-04    |
|         125 |           4 |       1017 |             120 | 2010-07-21    |
|         126 |           7 |       1010 |              95 | 2016-12-16    |
|         127 |           6 |       1004 |             104 | 2003-11-12    |
|         128 |           2 |       1018 |              43 | 2001-09-03    |
|         129 |           5 |       1006 |              10 | 2014-05-27    |
|         130 |           8 |       1025 |             145 | 2018-10-02    |
+-------------+-------------+------------+-----------------+---------------+
30 rows in set (0.00 sec)
```

- To Create Orders Table :

```
28 • ⊖ CREATE TABLE ORDERS(
29      ORDER_ID INT NOT NULL,
30      TITLE VARCHAR(225),
31      FIRST VARCHAR(225),
32      MIDDLE VARCHAR(225),
33      LAST VARCHAR(225),
34      PRODUCT_ID INT NOT NULL,
35      NUMBER_SHIPPED INT NOT NULL,
36      ORDER_DATE VARCHAR(225),
37      PRIMARY KEY(ORDER_ID),
38      FOREIGN KEY(PRODUCT_ID) REFERENCES PRODUCTS(PRODUCT_ID));
39
```

- Desc Orders Table :

```
mysql> desc orders;
+----------------+--------------+------+-----+---------+-------+
| Field          | Type         | Null | Key | Default | Extra |
+----------------+--------------+------+-----+---------+-------+
| ORDER_ID       | int          | NO   | PRI | NULL    |       |
| TITLE          | varchar(225) | YES  |     | NULL    |       |
| FIRST          | varchar(225) | YES  |     | NULL    |       |
| MIDDLE         | varchar(225) | YES  |     | NULL    |       |
| LAST           | varchar(225) | YES  |     | NULL    |       |
| PRODUCT_ID     | int          | NO   | MUL | NULL    |       |
| NUMBER_SHIPPED | int          | NO   |     | NULL    |       |
| ORDER_DATE     | varchar(225) | YES  |     | NULL    |       |
+----------------+--------------+------+-----+---------+-------+
8 rows in set (0.00 sec)
```

- Insert Records in Orders Table :

```
92   INSERT INTO ORDERS (ORDER_ID,TITLE,FIRST,MIDDLE,LAST,PRODUCT_ID,NUMBER_SHIPPED,ORDER_DATE) VALUES
93   (201,'cbigley0','Inez','Abad','Heath',1008,145,'2018-10-02'),
94   (202,'adanilov1','Vivia','Voice','Wayne',1019,104,'2003-11-12'),
95   (203,'glongland2','Nevins','Goulter','Joline',1003,132,'2009-04-04'),
96   (204,'rclotworthy3','Elsey','Laterza','Borg',1004,120,'2001-04-22'),
97   (205,'mbacksal4','Starlin','Colhoun','Leeann',1030,94,'2019-03-29'),
98   (206,'rlille5','Sharleen','Lesaunier','Molli',1029,93,'2014-09-18'),
99   (207,'bpurvis6','Erhard','Dreng','Mitchael',1026,81,'2016-01-23'),
100  (208,'kelen7','Martynne','Siggers','Lucas',1024,87,'2016-01-01'),
101  (209,'pkiernan8','Leslie','MacGinney','Alexine',1002,18,'2010-06-08'),
102  (210,'fhannam9','Leonerd','Wonter','Marvin',1010,77,'2005-04-25'),
103  (211,'ichrstinea','Keith','Lilburn','Lita',1016,43,'2001-09-03'),
104  (212,'bdunbabinb','Lula','Cornthwaite','Leonid',1014,120,'2010-07-21'),
105  (213,'cgrogonac','Clim','Lambert','Emerson',1028,37,'2007-06-05'),
106  (214,'apallyd','Eva','Ciccotto','Paten',1018,59,'2008-05-09'),
107  (215,'gstolze','Nicolina','Schelle','Amitie',1017,105,'2018-07-13'),
108  (216,'mhovef','Dwayne','Emmott','Astrid',1007,76,'2022-06-26'),
109  (217,'amoseg','Alexina','Clayfield','Susann',1001,19,'2012-10-28'),
110  (218,'nouchterlonyh','Cindie','Kemster','Melamie',1009,72,'2015-10-07'),
111  (219,'swinklei','Kev','Brocklehurst','Carline',1021,61,'2017-03-10'),
112  (220,'sferensj','Eunice','Squires','Erasmus',1006,15,'2003-12-06'),
113  (221,'mmcelroyk','Rudyard','Fenne','Dillie',1005,20,'2004-02-24'),
114  (222,'mszymonil','Kamillah','Harrow','Pierrette',1011,42,'2009-07-14'),
115  (223,'glooneym','Russ','Corp','Candice',1013,66,'2020-11-02'),
116  (224,'aeddisn','Arnaldo','Meth','Meridel',1023,5,'2006-02-17'),
117  (225,'lfareyo','Hewitt','Couttes','Penelope',1015,84,'2002-12-15'),
118  (226,'rsebbornp','Esdras','Silcocks','Tiphani',1022,101,'2011-11-11'),
119  (227,'ldwerryhouseq','Anna-diane','Buxey','Florentia',1012,31,'2021-08-19'),
120  (228,'lbushnellr','Haleigh','Thornham','Kendall',1025,102,'2022-02-20'),
121  (229,'bdaverins','Hansiain','Klesel','Agretha',1020,95,'2016-12-16'),
122  (230,'gdesortst','Edna','Durtnel','Felicity',1027,10,'2014-05-27');
```

- Orders Table with Records :

```
mysql> select * from orders;
+----------+--------------+-------------+--------------+-----------+------------+----------------+------------+
| ORDER_ID | TITLE        | FIRST       | MIDDLE       | LAST      | PRODUCT_ID | NUMBER_SHIPPED | ORDER_DATE |
+----------+--------------+-------------+--------------+-----------+------------+----------------+------------+
|      201 | cbigley0     | Inez        | Abad         | Heath     |       1008 |            145 | 2018-10-02 |
|      202 | adanilov1    | Vivia       | Voice        | Wayne     |       1019 |            104 | 2003-11-12 |
|      203 | glongland2   | Nevins      | Goulter      | Joline    |       1003 |            132 | 2009-04-04 |
|      204 | rclotworthy3 | Elsey       | Laterza      | Borg      |       1004 |            120 | 2001-04-22 |
|      205 | mbacksal4    | Starlin     | Colhoun      | Leeann    |       1030 |             94 | 2019-03-29 |
|      206 | rlille5      | Sharleen    | Lesaunier    | Molli     |       1029 |             93 | 2014-09-18 |
|      207 | bpurvis6     | Erhard      | Dreng        | Mitchael  |       1026 |             81 | 2016-01-23 |
|      208 | kelen7       | Martynne    | Siggers      | Lucas     |       1024 |             87 | 2016-01-01 |
|      209 | pkiernan8    | Leslie      | MacGinney    | Alexine   |       1002 |             18 | 2010-06-08 |
|      210 | fhannam9     | Leonerd     | Wonter       | Marvin    |       1010 |             77 | 2005-04-25 |
|      211 | ichrstinea   | Keith       | Lilburn      | Lita      |       1016 |             43 | 2001-09-03 |
|      212 | bdunbabinb   | Lula        | Cornthwaite  | Leonid    |       1014 |            120 | 2010-07-21 |
|      213 | cgrogonac    | Clim        | Lambert      | Emerson   |       1028 |             37 | 2007-06-05 |
|      214 | apallyd      | Eva         | Ciccotto     | Paten     |       1018 |             59 | 2008-05-09 |
|      215 | gstolze      | Nicolina    | Schelle      | Amitie    |       1017 |            105 | 2018-07-13 |
|      216 | mhovef       | Dwayne      | Emmott       | Astrid    |       1007 |             76 | 2022-06-26 |
|      217 | amoseg       | Alexina     | Clayfield    | Susann    |       1001 |             19 | 2012-10-28 |
|      218 | nouchterlonyh| Cindie      | Kemster      | Melamie   |       1009 |             72 | 2015-10-07 |
|      219 | swinklei     | Kev         | Brocklehurst | Carline   |       1021 |             61 | 2017-03-10 |
|      220 | sferensj     | Eunice      | Squires      | Erasmus   |       1006 |             15 | 2003-12-06 |
|      221 | mmcelroyk    | Rudyard     | Fenne        | Dillie    |       1005 |             20 | 2004-02-24 |
|      222 | mszymonil    | Kamillah    | Harrow       | Pierrette |       1011 |             42 | 2009-07-14 |
|      223 | glooneym     | Russ        | Corp         | Candice   |       1013 |             66 | 2020-11-02 |
|      224 | aeddisn      | Arnaldo     | Meth         | Meridel   |       1023 |              5 | 2006-02-17 |
|      225 | lfareyo      | Hewitt      | Couttes      | Penelope  |       1015 |             84 | 2002-12-15 |
|      226 | rsebbornp    | Esdras      | Silcocks     | Tiphani   |       1022 |            101 | 2011-11-11 |
|      227 | ldwerryhouseq| Anna-diane  | Buxey        | Florentia |       1012 |             31 | 2021-08-19 |
|      228 | lbushnellr   | Haleigh     | Thornham     | Kendall   |       1025 |            102 | 2022-02-20 |
|      229 | bdaverins    | Hansiain    | Klesel       | Agretha   |       1020 |             95 | 2016-12-16 |
|      230 | gdesortst    | Edna        | Durtnel      | Felicity  |       1027 |             10 | 2014-05-27 |
+----------+--------------+-------------+--------------+-----------+------------+----------------+------------+
30 rows in set (0.00 sec)
```

FINDING INSIGHTS FROM ABOVE TABLES:

1) Query to find product_name like 'c%' from product table.

```
mysql> select * from products where product_name like 'c%';
+------------+----------------------------+-------------+---------------------------------------+-------------------+-------------------+-------------------+-------------------+------------------+
| PRODUCT_ID | PRODUCT_NAME               | PART_NUMBER | PRODUCT_LABEL                         | STARTING_INVENTORY | INVENTORY_RECEIVED | INVENTORY_SHIPPED | INVENTORY_ON_HAND | MINIMUM_REQUIRED |
+------------+----------------------------+-------------+---------------------------------------+-------------------+-------------------+-------------------+-------------------+------------------+
|       1003 | Cisco Router              | 10X         | Cisco Router-10X                      | 45                |               143 |                76 | 86                |               88 |
|       1007 | Cognizant It              | WP 2001     | Cognizant-WP 3000                     | 210               |                65 |               350 | -550              |               28 |
|       1019 | Cards Crafty              | 35-CC       | Cards Crafty 35-CC                    | 989               |               250 |                68 | 6548              |              230 |
|       1020 | Code That Speaks          | CTS 2587    | Code That Speaks-CTS 2587             | 232,52            |               890 |                32 | -56               |              355 |
|       1023 | Code Red Technology       | CRT-98      | Code Red Technology CRT-98            | 303               |               361 |               250 | 6589              |              320 |
|       1025 | Cool Source Code          | CSC-390     | Cool Source Code CSC-390              | 35                |               254 |                18 | 56                |              205 |
|       1026 | Cryptical Coders          | CO-5687     | Cryptical Coders CO-5687              | 105               |                98 |               188 | 560               |               20 |
|       1027 | Cryptware Tech International | CTI-305   | Cryptware Tech International CTI-305   | 3                 |                 2 |                25 | 352               |                8 |
+------------+----------------------------+-------------+---------------------------------------+-------------------+-------------------+-------------------+-------------------+------------------+
8 rows in set (0.00 sec)
```

2) Query to find inventory_recieved from product table by limt 10.

```
mysql> select * from products order by inventory_received limit 10;
+------------+----------------------------+-------------+---------------------------------------+-------------------+-------------------+-------------------+-------------------+------------------+
| PRODUCT_ID | PRODUCT_NAME               | PART_NUMBER | PRODUCT_LABEL                         | STARTING_INVENTORY | INVENTORY_RECEIVED | INVENTORY_SHIPPED | INVENTORY_ON_HAND | MINIMUM_REQUIRED |
+------------+----------------------------+-------------+---------------------------------------+-------------------+-------------------+-------------------+-------------------+------------------+
|       1004 | Sadasd                    | 21          | Sadasd-21                             | 25                |                 0 |                 0 | 25                |               10 |
|       1027 | Cryptware Tech International | CTI-305   | Cryptware Tech International CTI-305   | 3                 |                 2 |                25 | 352               |                8 |
|       1005 | Semih                     | 37          | Semih-37                              | 1                 |                12 |                 5 | 8                 |                5 |
|       1024 | Software Island           | 6598        | Software Island 6598                  | 26                |                34 |               608 | -6931             |               25 |
|       1001 | Dell Server               | XP 2000     | Dell Server-XP 2000                   | 100,007           |                35 |                25 | 100,017           |               15 |
|       1014 | Au Small Finance          | AUS 35.2    | Au Small Finance-AUS 35.2             | 35                |                35 |               135 | 13,56             |              980 |
|       1007 | Cognizant It              | WP 2001     | Cognizant-WP 3000                     | 210               |                65 |               350 | -550              |               28 |
|       1016 | Future It Company         | 123         | Future It Company 123                 | 102               |                65 |               350 | -368              |               28 |
|       1002 | Google ChromeBooks        | 1           | Google Chromebooks-1.0                | 100               |                75 |               654 | -479              |               20 |
|       1022 | Bridger Data Solutions    | BDS-290     | Bridger Data Solutions BDS-290        | 65                |                87 |                21 | 13                |                9 |
+------------+----------------------------+-------------+---------------------------------------+-------------------+-------------------+-------------------+-------------------+------------------+
10 rows in set (0.00 sec)
```

3) Query to find number_shipped from order table where number shipped should be greater than 100.

```
mysql> select * from orders;
+----------+--------------+------------+--------------+-----------+------------+-----------------+------------+
| ORDER_ID | TITLE        | FIRST      | MIDDLE       | LAST      | PRODUCT_ID | NUMBER_SHIPPED  | ORDER_DATE |
+----------+--------------+------------+--------------+-----------+------------+-----------------+------------+
|      201 | cbigley0     | Inez       | Abad         | Heath     |       1008 |             145 | 2018-10-02 |
|      202 | adanilov1    | Vivia      | Voice        | Wayne     |       1019 |             104 | 2003-11-12 |
|      203 | glongland2   | Nevins     | Goulter      | Joline    |       1003 |             132 | 2009-04-04 |
|      204 | rclotworthy3 | Elsey      | Laterza      | Borg      |       1004 |             120 | 2001-04-22 |
|      205 | mbacksal4    | Starlin    | Colhoun      | Leeann    |       1030 |              94 | 2019-03-29 |
|      206 | rlille5      | Sharleen   | Lesaunier    | Molli     |       1029 |              93 | 2014-09-18 |
|      207 | bpurvis6     | Erhard     | Dreng        | Mitchael  |       1026 |              81 | 2016-01-23 |
|      208 | kelen7       | Martynne   | Siggers      | Lucas     |       1024 |              87 | 2016-01-01 |
|      209 | pkiernan8    | Leslie     | MacGinney    | Alexine   |       1002 |              18 | 2010-06-08 |
|      210 | fhannam9     | Leonerd    | Wonter       | Marvin    |       1010 |              77 | 2005-04-25 |
|      211 | ichrstinea   | Keith      | Lilburn      | Lita      |       1016 |              43 | 2001-09-03 |
|      212 | bdunbabinb   | Lula       | Cornthwaite  | Leonid    |       1014 |             120 | 2010-07-21 |
|      213 | cgrogonac    | Clim       | Lambert      | Emerson   |       1028 |              37 | 2007-06-05 |
|      214 | apallyd      | Eva        | Ciccotto     | Paten     |       1018 |              59 | 2008-05-09 |
|      215 | gstolze      | Nicolina   | Schelle      | Amitie    |       1017 |             105 | 2018-07-13 |
|      216 | mhovef       | Dwayne     | Emmott       | Astrid    |       1007 |              76 | 2022-06-26 |
|      217 | amoseg       | Alexina    | Clayfield    | Susann    |       1001 |              19 | 2012-10-28 |
|      218 | nouchterlonyh| Cindie     | Kemster      | Melamie   |       1009 |              72 | 2015-10-07 |
|      219 | swinklei     | Kev        | Brocklehurst | Carline   |       1021 |              61 | 2017-03-10 |
|      220 | sferensj     | Eunice     | Squires      | Erasmus   |       1006 |              15 | 2003-12-06 |
|      221 | mmcelroyk    | Rudyard    | Fenne        | Dillie    |       1005 |              20 | 2004-02-24 |
|      222 | mszymonil    | Kamillah   | Harrow       | Pierrette |       1011 |              42 | 2009-07-14 |
|      223 | glooneym     | Russ       | Corp         | Candice   |       1013 |              66 | 2020-11-02 |
|      224 | aeddisn      | Arnaldo    | Meth         | Meridel   |       1023 |               5 | 2006-02-17 |
|      225 | lfareyo      | Hewitt     | Couttes      | Penelope  |       1015 |              84 | 2002-12-15 |
|      226 | rsebbornp    | Esdras     | Silcocks     | Tiphani   |       1022 |             101 | 2011-11-11 |
|      227 | ldwerryhouseq| Anna-diane | Buxey        | Florentia |       1012 |              31 | 2021-08-19 |
|      228 | lbushnellr   | Haleigh    | Thornham     | Kendall   |       1025 |             102 | 2022-02-20 |
|      229 | bdaverins    | Hansiain   | Klesel       | Agretha   |       1020 |              95 | 2016-12-16 |
|      230 | gdesortst    | Edna       | Durtnel      | Felicity  |       1027 |              10 | 2014-05-27 |
+----------+--------------+------------+--------------+-----------+------------+-----------------+------------+
30 rows in set (0.00 sec)

mysql> select count(number_shipped) from orders where number_shipped > 100;
+-----------------------+
| count(number_shipped) |
+-----------------------+
|                     8 |
+-----------------------+
1 row in set (0.00 sec)
```

4) Query to find purchase_date between '2010-1-1' to '2015-1-1' from order table.

```
mysql> SELECT * FROM orders WHERE order_date between '2010-1-1' and '2015-1-1' ;
+----------+-----------+----------+-----------+----------+------------+-----------------+------------+
| ORDER_ID | TITLE     | FIRST    | MIDDLE    | LAST     | PRODUCT_ID | NUMBER_SHIPPED  | ORDER_DATE |
+----------+-----------+----------+-----------+----------+------------+-----------------+------------+
|      206 | rlille5   | Sharleen | Lesaunier | Molli    |       1029 |              93 | 2014-09-18 |
|      217 | amoseg    | Alexina  | Clayfield | Susann   |       1001 |              19 | 2012-10-28 |
|      226 | rsebbornp | Esdras   | Silcocks  | Tiphani  |       1022 |             101 | 2011-11-11 |
|      230 | gdesortst | Edna     | Durtnel   | Felicity |       1027 |              10 | 2014-05-27 |
+----------+-----------+----------+-----------+----------+------------+-----------------+------------+
4 rows in set (0.00 sec)

mysql>
```

5) Query to find product_id in ascending order from purchase table.

```
mysql> select * from purchases order by product_id asc;
+-------------+-------------+------------+-----------------+---------------+
| PURCHASE_ID | SUPPLIER_ID | PRODUCT_ID | NUMBER_RECEIVED | PURCHASE_DATE |
+-------------+-------------+------------+-----------------+---------------+
|         118 |           8 |       1001 |              94 | 2019-03-29    |
|         112 |           7 |       1002 |              81 | 2016-01-23    |
|         119 |           4 |       1002 |              59 | 2008-05-09    |
|         111 |           4 |       1003 |               5 | 2006-02-17    |
|         127 |           6 |       1004 |             104 | 2003-11-12    |
|         116 |           1 |       1005 |             105 | 2018-07-13    |
|         129 |           5 |       1006 |              10 | 2014-05-27    |
|         120 |           5 |       1007 |              31 | 2021-08-19    |
|         113 |           5 |       1008 |              76 | 2022-06-26    |
|         102 |           2 |       1009 |              20 | 2004-02-24    |
|         126 |           7 |       1010 |              95 | 2016-12-16    |
|         107 |           7 |       1011 |              72 | 2015-10-07    |
|         115 |           2 |       1012 |              93 | 2014-09-18    |
|         110 |           8 |       1013 |              19 | 2012-10-28    |
|         106 |           6 |       1014 |              18 | 2010-06-08    |
|         105 |           3 |       1015 |              42 | 2009-07-14    |
|         124 |           1 |       1016 |             132 | 2009-04-04    |
|         125 |           4 |       1017 |             120 | 2010-07-21    |
|         128 |           2 |       1018 |              43 | 2001-09-03    |
|         117 |           2 |       1019 |             101 | 2011-11-11    |
|         114 |           3 |       1020 |              84 | 2002-12-15    |
|         101 |           8 |       1021 |              15 | 2003-12-06    |
|         109 |           6 |       1022 |              87 | 2016-01-01    |
|         123 |           3 |       1023 |             102 | 2022-02-20    |
|         103 |           5 |       1024 |              77 | 2005-04-25    |
|         130 |           8 |       1025 |             145 | 2018-10-02    |
|         121 |           7 |       1026 |             120 | 2001-04-22    |
|         122 |           6 |       1027 |              37 | 2007-06-05    |
|         108 |           4 |       1029 |              66 | 2020-11-02    |
|         104 |           1 |       1030 |              61 | 2017-03-10    |
+-------------+-------------+------------+-----------------+---------------+
30 rows in set (0.00 sec)
```

==========================THE END==========================