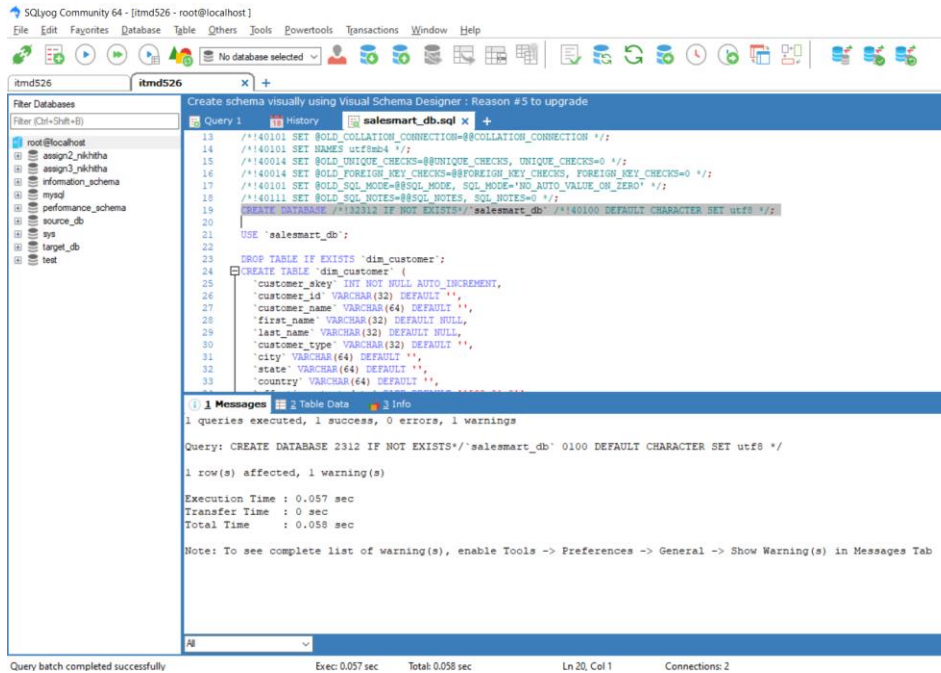


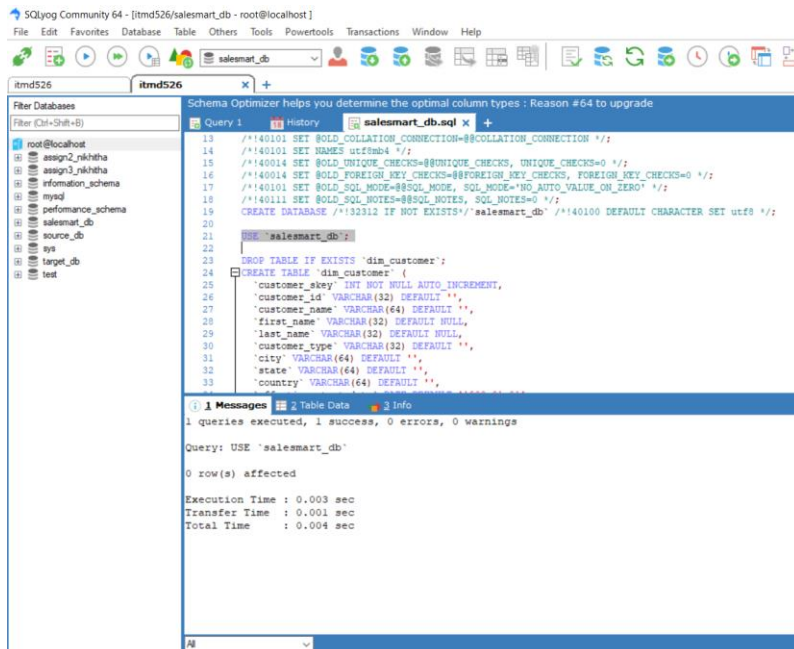
## ITMD-526 Data warehousing - Assignment 4

Nikhitha Kamath – A20473286

Created salesmart\_db database



Using salesmart\_db database



## Drops dim\_customer table if it exists in the database

The screenshot shows the SQLyog Community 64 interface. The left pane displays a list of databases, including 'salesmart\_db'. The main pane shows a SQL script with the following content:

```
13  /**140101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
14  /**140101 SET NAMES utf8mb4 */;
15  /**140014 SET @OLD_UNIQUE_CHECKS=@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
16  /**140014 SET @OLD_FOREIGN_KEY_CHECKS=@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;
17  /**140101 SET @OLD_SQL_MODE=@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
18  /**140111 SET @OLD_SQL_NOTES=@SQL_NOTES, SQL_NOTES=0 */;
19  CREATE DATABASE /*!32312 IF NOT EXISTS*/ 'salesmart_db' /*!40100 DEFAULT CHARACTER SET utf8 */;
20  USE 'salesmart_db';
21
22  DROP TABLE IF EXISTS `dim_customer`;
23
24  CREATE TABLE `dim_customer` (
25    `customer_skey` INT NOT NULL AUTO_INCREMENT,
26    `customer_id` VARCHAR(32) DEFAULT '',
27    `customer_name` VARCHAR(64) DEFAULT '',
28    `first_name` VARCHAR(32) DEFAULT NULL,
29    `last_name` VARCHAR(32) DEFAULT NULL,
30    `customer_type` VARCHAR(32) DEFAULT '',
31    `city` VARCHAR(64) DEFAULT '',
32    `state` VARCHAR(64) DEFAULT '',
33  ) ENGINE=InnoDB AUTO_INCREMENT=32770 DEFAULT CHARSET=utf8mb3;
```

The Messages pane at the bottom shows the execution results:

```
1 queries executed, 1 success, 0 errors, 1 warnings
Query: DROP TABLE IF EXISTS `dim_customer`
0 row(s) affected, 1 warning(s)
Execution Time : 0.027 sec
Transfer Time : 0 sec
Total Time : 0.027 sec
Note: To see complete list of warning(s), enable Tools -> Preferences -> General -> Show Warning(s) in Messages Tab
```

The status bar at the bottom indicates: Query batch completed successfully, Exec: 0.027 sec, Total: 0.027 sec, Ln 24, Col 1, Connections: 2.

## Created dim\_customer table

The screenshot shows the SQLyog Community 64 interface. The left pane displays a list of databases, including 'salesmart\_db'. The main pane shows a SQL script with the following content:

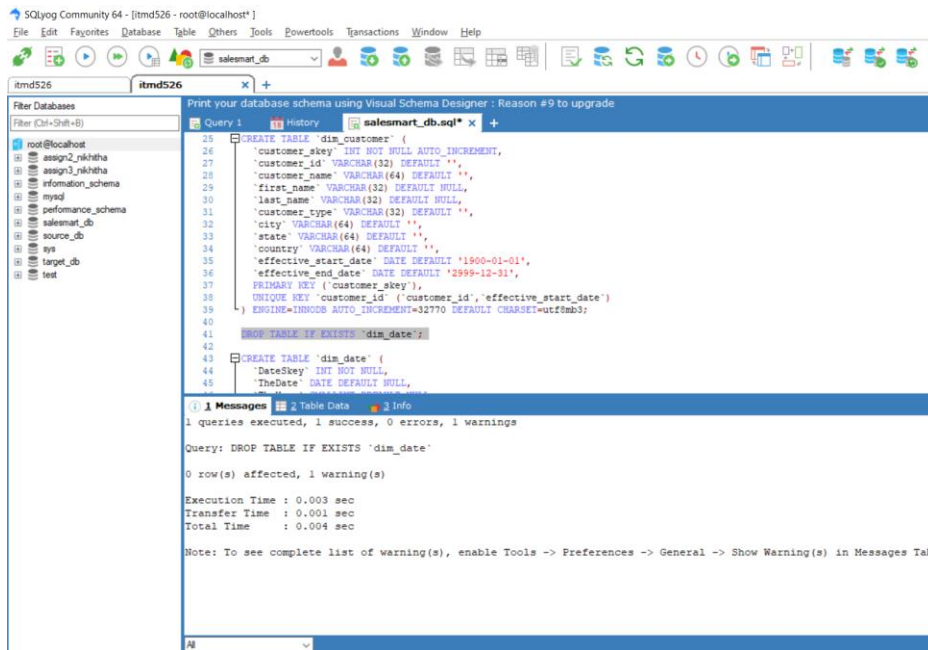
```
19  CREATE DATABASE /*!32312 IF NOT EXISTS*/ 'salesmart_db' /*!40100 DEFAULT CHARACTER SET utf8 */;
20  USE 'salesmart_db';
21
22  DROP TABLE IF EXISTS `dim_customer`;
23
24  CREATE TABLE `dim_customer` (
25    `customer_skey` INT NOT NULL AUTO_INCREMENT,
26    `customer_id` VARCHAR(32) DEFAULT '',
27    `customer_name` VARCHAR(64) DEFAULT '',
28    `first_name` VARCHAR(32) DEFAULT NULL,
29    `last_name` VARCHAR(32) DEFAULT NULL,
30    `customer_type` VARCHAR(32) DEFAULT '',
31    `city` VARCHAR(64) DEFAULT '',
32    `state` VARCHAR(64) DEFAULT '',
33    `country` VARCHAR(64) DEFAULT '',
34    `effective_start_date` DATE DEFAULT '1900-01-01',
35    `effective_end_date` DATE DEFAULT '2999-12-31',
36    PRIMARY KEY (`customer_skey`),
37    UNIQUE KEY `customer_id` (`customer_id`,`effective_start_date`),
38  ) ENGINE=InnoDB AUTO_INCREMENT=32770 DEFAULT CHARSET=utf8mb3;
```

The Messages pane at the bottom shows the execution results:

```
1 queries executed, 1 success, 0 errors, 1 warnings
Query: CREATE TABLE `dim_customer` ( `customer_skey` int NOT NULL AUTO_INCREMENT, `customer_id` varchar(32) DEFAULT '', `customer_name`...
0 row(s) affected, 1 warning(s)
Execution Time : 0.147 sec
Transfer Time : 0 sec
Total Time : 0.147 sec
Note: To see complete list of warning(s), enable Tools -> Preferences -> General -> Show Warning(s) in Messages Tab
```

The status bar at the bottom indicates: Query batch completed successfully, Exec: 0.147 sec, Total: 0.147 sec, Ln 25, Col 1, Connections: 2, Upgrade to SQLyog Prof.

## Drops dim\_date table if it exists



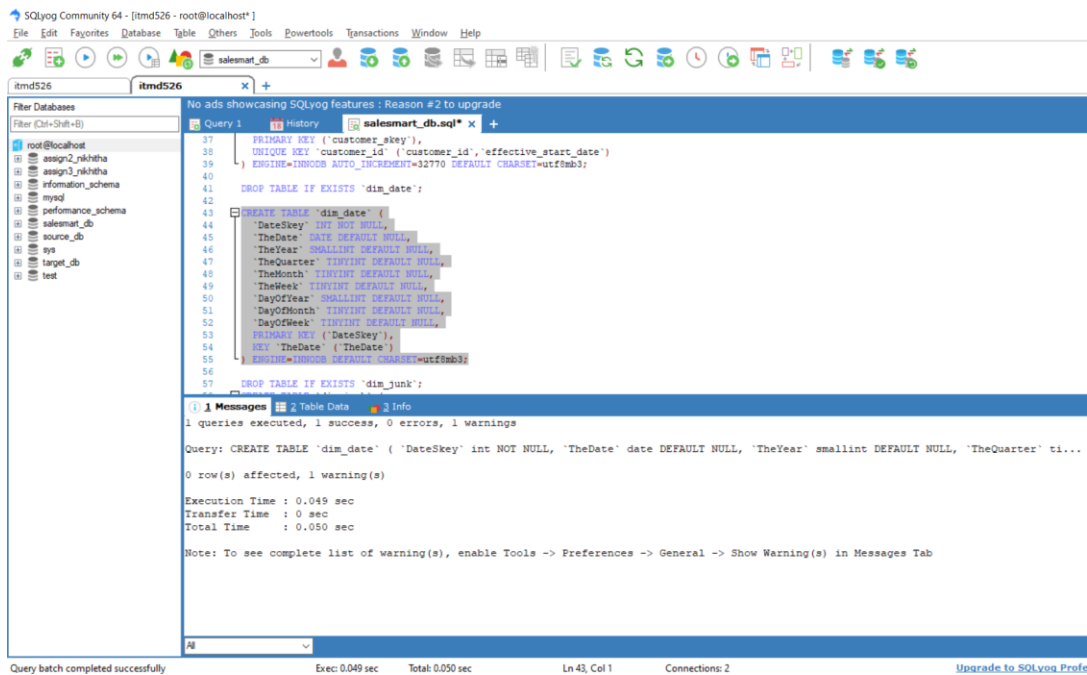
The screenshot shows the SQLyog Community 64 interface. The left pane displays a list of databases, including 'root@localhost', 'assign2\_nk1h1ha', 'assign3\_nk1h1ha', 'information\_schema', 'mysql', 'performance\_schema', 'salesmart\_db', 'source\_db', 'sys', 'target\_db', and 'test'. The main pane shows a query window with the following SQL code:

```
25 CREATE TABLE 'dim_customer' (
26   'customer_skey' INT NOT NULL AUTO_INCREMENT,
27   'customer_id' VARCHAR(32) DEFAULT '',
28   'customer_name' VARCHAR(64) DEFAULT '',
29   'first_name' VARCHAR(32) DEFAULT NULL,
30   'last_name' VARCHAR(32) DEFAULT NULL,
31   'customer_type' VARCHAR(32) DEFAULT '',
32   'city' VARCHAR(64) DEFAULT '',
33   'state' VARCHAR(64) DEFAULT '',
34   'country' VARCHAR(64) DEFAULT '',
35   'effective_start_date' DATE DEFAULT '1900-01-01',
36   'effective_end_date' DATE DEFAULT '2999-12-31',
37   PRIMARY KEY ('customer_skey'),
38   UNIQUE KEY 'customer_id' ('customer_id','effective_start_date')
39 ) ENGINE=INNODB AUTO_INCREMENT=32770 DEFAULT CHARSET=utf8mb3;
40
41 DROP TABLE IF EXISTS 'dim_date';
42
43 CREATE TABLE 'dim_date' (
44   'DateSkey' INT NOT NULL,
45   'TheDate' DATE DEFAULT NULL,
```

The Messages pane at the bottom shows the execution results for the query:

```
1 Messages 2 Table Data 3 Info
1 queries executed, 1 success, 0 errors, 1 warnings
Query: DROP TABLE IF EXISTS 'dim_date'
0 row(s) affected, 1 warning(s)
Execution Time : 0.003 sec
Transfer Time : 0.001 sec
Total Time : 0.004 sec
Note: To see complete list of warning(s), enable Tools -> Preferences -> General -> Show Warning(s) in Messages Tab
```

## Created table dim\_date



The screenshot shows the SQLyog Community 64 interface. The left pane displays a list of databases, including 'root@localhost', 'assign2\_nk1h1ha', 'assign3\_nk1h1ha', 'information\_schema', 'mysql', 'performance\_schema', 'salesmart\_db', 'source\_db', 'sys', 'target\_db', and 'test'. The main pane shows a query window with the following SQL code:

```
37 PRIMARY KEY ('customer_skey'),
38 UNIQUE KEY 'customer_id' ('customer_id','effective_start_date')
39 ) ENGINE=INNODB AUTO_INCREMENT=32770 DEFAULT CHARSET=utf8mb3;
40
41 DROP TABLE IF EXISTS 'dim_date';
42
43 CREATE TABLE 'dim_date' (
44   'DateSkey' INT NOT NULL,
45   'TheDate' DATE DEFAULT NULL,
46   'TheYear' SMALLINT DEFAULT NULL,
47   'TheQuarter' TINYINT DEFAULT NULL,
48   'TheMonth' TINYINT DEFAULT NULL,
49   'TheWeek' TINYINT DEFAULT NULL,
50   'DayOfYear' SMALLINT DEFAULT NULL,
51   'DayOfMonth' TINYINT DEFAULT NULL,
52   'DayOfWeek' TINYINT DEFAULT NULL,
53   PRIMARY KEY ('DateSkey'),
54   KEY 'TheDate' ('TheDate')
55 ) ENGINE=INNODB DEFAULT CHARSET=utf8mb3;
56
57 DROP TABLE IF EXISTS 'dim_junk';
58
```

The Messages pane at the bottom shows the execution results for the query:

```
1 Messages 2 Table Data 3 Info
1 queries executed, 1 success, 0 errors, 1 warnings
Query: CREATE TABLE 'dim_date' ( 'DateSkey' int NOT NULL, 'TheDate' date DEFAULT NULL, 'TheYear' smallint DEFAULT NULL, 'TheQuarter' ti...
0 row(s) affected, 1 warning(s)
Execution Time : 0.049 sec
Transfer Time : 0 sec
Total Time : 0.050 sec
Note: To see complete list of warning(s), enable Tools -> Preferences -> General -> Show Warning(s) in Messages Tab
```

At the bottom of the window, the status bar displays: "Query batch completed successfully", "Exec: 0.049 sec", "Total: 0.050 sec", "Ln 43, Col 1", "Connections: 2", and a link to "Upgrade to SQLyog.Prof".

## Drops dim\_junk table if it exists

The screenshot shows the SQLyog Community 64 interface. The left sidebar displays a list of databases, including 'salesmart\_db'. The main window shows a query executed in the 'salesmart\_db' database. The query is as follows:

```
52 DayOfWeek TINYINT DEFAULT NULL,  
53 PRIMARY KEY ('DateKey'),  
54 KEY 'TheDate' ('TheDate')  
55 ) ENGINE=INNODB DEFAULT CHARSET=utf8mb3;  
56  
57 DROP TABLE IF EXISTS 'dim_junk';  
58  
59 CREATE TABLE 'dim_junk' (  
60 'junk_skey' INT NOT NULL AUTO_INCREMENT,  
61 'ship_mode' VARCHAR(32) DEFAULT '',  
62 'order_priority' VARCHAR(32) DEFAULT '',  
63 PRIMARY KEY ('junk_skey')  
64 ) ENGINE=INNODB AUTO_INCREMENT=13 DEFAULT CHARSET=utf8mb3;  
65  
66 DROP TABLE IF EXISTS 'dim_product';  
67  
68 CREATE TABLE 'dim_product' (  
69 'product_skey' INT NOT NULL AUTO_INCREMENT,  
70 'product_id' VARCHAR(32) DEFAULT '',  
71 'category' VARCHAR(32) DEFAULT ''
```

The Messages tab shows the following information:

- 1 queries executed, 1 success, 0 errors, 1 warnings
- Query: DROP TABLE IF EXISTS 'dim\_junk'
- 0 row(s) affected, 1 warning(s)
- Execution Time : 0.004 sec
- Transfer Time : 0 sec
- Total Time : 0.005 sec

Note: To see complete list of warning(s), enable Tools -> Preferences -> General -> Show Warning(s) in Messages Tab

Query batch completed successfully Exec: 0.004 sec Total: 0.005 sec Ln 58, Col 1 Connections: 2

## Created dim\_junk table

The screenshot shows the SQLyog Community 64 interface. The left sidebar displays a list of databases, including 'salesmart\_db'. The main window shows a query executed in the 'salesmart\_db' database. The query is as follows:

```
52 DayOfWeek TINYINT DEFAULT NULL,  
53 PRIMARY KEY ('DateKey'),  
54 KEY 'TheDate' ('TheDate')  
55 ) ENGINE=INNODB DEFAULT CHARSET=utf8mb3;  
56  
57 DROP TABLE IF EXISTS 'dim_junk';  
58  
59 CREATE TABLE 'dim_junk' (  
60 'junk_skey' INT NOT NULL AUTO_INCREMENT,  
61 'ship_mode' VARCHAR(32) DEFAULT '',  
62 'order_priority' VARCHAR(32) DEFAULT '',  
63 PRIMARY KEY ('junk_skey')  
64 ) ENGINE=INNODB AUTO_INCREMENT=13 DEFAULT CHARSET=utf8mb3;  
65  
66 DROP TABLE IF EXISTS 'dim_product';  
67  
68 CREATE TABLE 'dim_product' (  
69 'product_skey' INT NOT NULL AUTO_INCREMENT,  
70 'product_id' VARCHAR(32) DEFAULT '',  
71 'category' VARCHAR(32) DEFAULT ''
```

The Messages tab shows the following information:

- 1 queries executed, 1 success, 0 errors, 1 warnings
- Query: CREATE TABLE 'dim\_junk' ( 'junk\_skey' int NOT NULL AUTO\_INCREMENT, 'ship\_mode' varchar(32) DEFAULT '', 'order\_priority' varchar(...
- 0 row(s) affected, 1 warning(s)
- Execution Time : 0.025 sec
- Transfer Time : 0 sec
- Total Time : 0.025 sec

Note: To see complete list of warning(s), enable Tools -> Preferences -> General -> Show Warning(s) in Messages Tab

Query batch completed successfully Exec: 0.025 sec Total: 0.025 sec Ln 65, Col 1 Connections: 2 [Upgrade to SQLyog Pro](#)

## Drops dim\_product table if it exists

The screenshot shows the SQLyog Community 64 interface. The left pane displays a list of databases, including 'root@localhost', 'assign2\_nk1nha', 'assign3\_nk1nha', 'information\_schema', 'mysql', 'performance\_schema', 'salesmart\_db', 'source\_db', 'sys', 'target\_db', and 'test'. The main pane shows a query window with the following SQL code:

```
52 DayOfWeek' TINYINT DEFAULT NULL,  
53 PRIMARY KEY ('DateKey'),  
54 KEY 'TheDate' ('TheDate')  
55 ) ENGINE=INNODB DEFAULT CHARSET=utf8mb3;  
56  
57 DROP TABLE IF EXISTS 'dim_junk';  
58  
59 CREATE TABLE 'dim_junk' (  
60 'junk_skey' INT NOT NULL AUTO_INCREMENT,  
61 'ship_mode' VARCHAR(32) DEFAULT '',  
62 'order_priority' VARCHAR(32) DEFAULT '',  
63 PRIMARY KEY ('junk_skey')  
64 ) ENGINE=INNODB AUTO_INCREMENT=13 DEFAULT CHARSET=utf8mb3;  
65  
66 DROP TABLE IF EXISTS 'dim_product';  
67  
68 CREATE TABLE 'dim_product' (  
69 'product_skey' INT NOT NULL AUTO_INCREMENT,  
70 'product_id' VARCHAR(32) DEFAULT '',  
71 'category' VARCHAR(32) DEFAULT '',
```

The Messages tab at the bottom shows the execution results for the query: `DROP TABLE IF EXISTS 'dim_product'`. It indicates that 0 row(s) were affected and 1 warning(s) were generated. The execution time was 0.003 sec, transfer time was 0.002 sec, and total time was 0.005 sec. A note at the bottom suggests enabling the 'Show Warning(s) in Messages Tab' option in the preferences.

## Created dim\_product table

The screenshot shows the SQLyog Community 64 interface. The left pane displays a list of databases, including 'root@localhost', 'assign2\_nk1nha', 'assign3\_nk1nha', 'information\_schema', 'mysql', 'performance\_schema', 'salesmart\_db', 'source\_db', 'sys', 'target\_db', and 'test'. The main pane shows a query window with the following SQL code:

```
64 ) ENGINE=INNODB AUTO_INCREMENT=13 DEFAULT CHARSET=utf8mb3;  
65  
66 DROP TABLE IF EXISTS 'dim_product';  
67  
68 CREATE TABLE 'dim_product' (  
69 'product_skey' INT NOT NULL AUTO_INCREMENT,  
70 'product_id' VARCHAR(32) DEFAULT '',  
71 'category' VARCHAR(32) DEFAULT '',  
72 'sub_category' VARCHAR(32) DEFAULT '',  
73 'product_name' VARCHAR(128) DEFAULT '',  
74 'effective_start_date' DATE DEFAULT '1900-01-01',  
75 'effective_end_date' DATE DEFAULT '2999-12-31',  
76 PRIMARY KEY ('product_skey'),  
77 UNIQUE KEY 'product_id' ('product_id', 'effective_start_date')  
78 ) ENGINE=INNODB AUTO_INCREMENT=4101 DEFAULT CHARSET=utf8mb3;  
79  
80 DROP TABLE IF EXISTS 'fact_orders';  
81 CREATE TABLE 'fact_orders' (  
82 'order_date_skey' INT DEFAULT NULL,  
83 'ship_date_skey' INT DEFAULT NULL,
```

The Messages tab at the bottom shows the execution results for the query: `DROP TABLE IF EXISTS 'dim_product'`. It indicates that 0 row(s) were affected and 1 warning(s) were generated. The execution time was 0.003 sec, transfer time was 0.002 sec, and total time was 0.005 sec. A note at the bottom suggests enabling the 'Show Warning(s) in Messages Tab' option in the preferences.



## Drops fact\_orders table if it exists

SQLyog Community 64 - [itmd526 - root@localhost]

File Edit Favorites Database Table Others Tools PowerTools Transactions Window Help

Filter Databases Filter (Ctrl+Shift+F)

- root@localhost
  - assign2\_rnkthha
  - assign3\_rnkthha
  - information\_schema
  - mysql
  - performance\_schema
  - salesmart\_db
  - source\_db
  - sys
  - target\_db
  - test

Query 1 History salesmart\_db.sql\* x +

```
64 -- ENGINE=InnoDB AUTO_INCREMENT=13 DEFAULT CHARSET=utf8mb3;
65
66 DROP TABLE IF EXISTS 'dim_product';
67
68 CREATE TABLE 'dim_product' (
69   'product_skey' INT NOT NULL AUTO_INCREMENT,
70   'product_id' VARCHAR(32) DEFAULT '',
71   'category' VARCHAR(32) DEFAULT '',
72   'sub_category' VARCHAR(32) DEFAULT '',
73   'product_name' VARCHAR(128) DEFAULT '',
74   'effective_start_date' DATE DEFAULT '1900-01-01',
75   'effective_end_date' DATE DEFAULT '2999-12-31',
76   PRIMARY KEY ('product_skey'),
77   UNIQUE KEY ('product_id', 'product_id', 'effective_start_date')
78 ) ENGINE=InnoDB AUTO_INCREMENT=4101 DEFAULT CHARSET=utf8mb3;
79
80 DROP TABLE IF EXISTS 'fact_orders';
81
82 CREATE TABLE 'fact_orders' (
83   'order_date_skey' INT DEFAULT NULL,
```

1 Messages 2 Table Data 3 Info

1 queries executed, 1 success, 0 errors, 1 warnings

Query: DROP TABLE IF EXISTS 'fact\_orders'

0 row(s) affected, 1 warning(s)

Execution Time : 0.002 sec  
Transfer Time : 0 sec  
Total Time : 0.002 sec

Note: To see complete list of warning(s), enable Tools -> Preferences -> General -> Show Warning(s) in Messages Tab

Query batch completed successfully Exec: 0.002 sec Total: 0.002 sec Ln 81 Col 1 Connections: 2

## Created fact\_orders table

SQLyog Community 64 - [itmd526 - root@localhost]

File Edit Favorites Database Table Others Tools PowerTools Transactions Window Help

Filter Databases Filter (Ctrl+Shift+F)

- root@localhost
  - assign2\_rnkthha
  - assign3\_rnkthha
  - information\_schema
  - mysql
  - performance\_schema
  - salesmart\_db
  - source\_db
  - sys
  - target\_db
  - test

Query 1 History salesmart\_db.sql\* x +

```
79
80 DROP TABLE IF EXISTS 'fact_orders';
81
82 CREATE TABLE 'fact_orders' (
83   'order_date_skey' INT DEFAULT NULL,
84   'ship_date_skey' INT DEFAULT NULL,
85   'customer_skey' BIGINT NOT NULL DEFAULT '0',
86   'product_skey' BIGINT NOT NULL DEFAULT '0',
87   'junk_skey' INT DEFAULT '0',
88   'order_id' VARCHAR(32) DEFAULT '',
89   'unit_sales_amount' DOUBLE(19,2) DEFAULT NULL,
90   'sales_quantity' INT DEFAULT NULL,
91   'discount_percent' DOUBLE DEFAULT NULL,
92   'extended_sales_amount' DOUBLE(19,2) DEFAULT NULL,
93   ENGINE=InnoDB DEFAULT CHARSET=utf8mb3;
94
95 DROP TABLE IF EXISTS 'sales_transaction';
96 CREATE TABLE 'sales_transaction' (
97   'id' DECIMAL(10,0) DEFAULT NULL,
98   'order_id' VARCHAR(32) DEFAULT '',
```

1 Messages 2 Table Data 3 Info

1 queries executed, 1 success, 0 errors, 1 warnings

Query: CREATE TABLE 'fact\_orders' ( 'order\_date\_skey' int DEFAULT NULL, 'ship\_date\_skey' int DEFAULT NULL, 'customer\_skey' bigint NOT N...

0 row(s) affected, 3 warning(s)

Execution Time : 0.025 sec  
Transfer Time : 0 sec  
Total Time : 0.026 sec

Note: To see complete list of warning(s), enable Tools -> Preferences -> General -> Show Warning(s) in Messages Tab

Query batch completed successfully Exec: 0.025 sec Total: 0.026 sec Ln 94 Col 1 Connections: 2 Upgrade to SQLyog Pro!

Drops sales\_transaction table if it exists

The screenshot shows the SQLyog Community 64 interface. The 'Query 1' tab is active, displaying a SQL script. The script includes a 'DROP TABLE IF EXISTS' statement for 'sales\_transaction'. The 'Messages' tab shows the execution results: '1 queries executed, 1 success, 0 errors, 1 warnings'. The query text is: 'Query: DROP TABLE IF EXISTS 'sales\_transaction''. The status bar at the bottom indicates 'Query batch completed successfully' with an execution time of 0.005 sec.

```
95 DROP TABLE IF EXISTS 'sales_transaction';
96
97 CREATE TABLE 'sales_transaction' (
98   'id' DECIMAL(10,0) DEFAULT NULL,
99   'order_id' VARCHAR(32) DEFAULT '',
100   'order_date' DATE DEFAULT NULL,
101   'ship_date' DATE DEFAULT NULL,
102   'ship_mode' VARCHAR(32) DEFAULT NULL,
103   'order_priority' VARCHAR(32) DEFAULT NULL,
104   'customer_id' VARCHAR(32) DEFAULT '',
105   'product_id' VARCHAR(32) DEFAULT '',
106   'unit_sales_amount' DOUBLE(19,2) DEFAULT NULL,
107   'discount_percent' DOUBLE DEFAULT NULL,
108   'sales_quantity' INT DEFAULT NULL,
109   'extended_sales_amount' DOUBLE(19,2) DEFAULT NULL,
110   ENGINE=InnoDB DEFAULT CHARSET=utf8mb3;
111
112 INSERT INTO 'dim_customer' ('customer_key', 'customer_id', 'customer_name', 'first_name', 'last_name', 'customer_type', 'city', 'state', 'country',
113   (-1, 'Unknown', 'Unknown', 'Unknown', 'Unknown', 'Unknown', 'Unknown', '1900-01-01', '2999-12-31'),
```

1 Messages 2 Table Data 3 Info  
1 queries executed, 1 success, 0 errors, 1 warnings  
Query: DROP TABLE IF EXISTS 'sales\_transaction'  
0 row(s) affected, 1 warning(s)  
Execution Time : 0.005 sec  
Transfer Time : 0 sec  
Total Time : 0.005 sec  
Note: To see complete list of warning(s), enable Tools -> Preferences -> General -> Show Warning(s) in Messages Tab

Query batch completed successfully Exec: 0.005 sec Total: 0.005 sec Ln 96, Col 1 Connections: 2

Creates sales\_transaction table

The screenshot shows the SQLyog Community 64 interface. The 'Query 1' tab is active, displaying a SQL script. The script includes a 'CREATE TABLE' statement for 'sales\_transaction'. The 'Messages' tab shows the execution results: '1 queries executed, 1 success, 0 errors, 1 warnings'. The query text is: 'Query: CREATE TABLE 'sales\_transaction' ( 'id' decimal(10,0) DEFAULT NULL, 'order\_id' varchar(32) DEFAULT '', 'order\_date' date DEFAULT...'. The status bar at the bottom indicates 'Query batch completed successfully' with an execution time of 0.040 sec.

```
94 DROP TABLE IF EXISTS 'sales_transaction';
95
96 CREATE TABLE 'sales_transaction' (
97   'id' DECIMAL(10,0) DEFAULT NULL,
98   'order_id' VARCHAR(32) DEFAULT '',
99   'order_date' DATE DEFAULT NULL,
100   'ship_date' DATE DEFAULT NULL,
101   'ship_mode' VARCHAR(32) DEFAULT NULL,
102   'order_priority' VARCHAR(32) DEFAULT NULL,
103   'customer_id' VARCHAR(32) DEFAULT '',
104   'product_id' VARCHAR(32) DEFAULT '',
105   'unit_sales_amount' DOUBLE(19,2) DEFAULT NULL,
106   'discount_percent' DOUBLE DEFAULT NULL,
107   'sales_quantity' INT DEFAULT NULL,
108   'extended_sales_amount' DOUBLE(19,2) DEFAULT NULL,
109   ENGINE=InnoDB DEFAULT CHARSET=utf8mb3;
110
111 INSERT INTO 'dim_customer' ('customer_key', 'customer_id', 'customer_name', 'first_name', 'last_name', 'customer_type', 'city', 'state', 'country',
112   (-1, 'Unknown', 'Unknown', 'Unknown', 'Unknown', 'Unknown', 'Unknown', '1900-01-01', '2999-12-31'),
```

1 Messages 2 Table Data 3 Info  
1 queries executed, 1 success, 0 errors, 1 warnings  
Query: CREATE TABLE 'sales\_transaction' ( 'id' decimal(10,0) DEFAULT NULL, 'order\_id' varchar(32) DEFAULT '', 'order\_date' date DEFAULT...  
0 row(s) affected, 3 warning(s)  
Execution Time : 0.040 sec  
Transfer Time : 0 sec  
Total Time : 0.041 sec  
Note: To see complete list of warning(s), enable Tools -> Preferences -> General -> Show Warning(s) in Messages Tab

Query batch completed successfully Exec: 0.040 sec Total: 0.041 sec Ln 111, Col 1 Connections: 2 [Upgrade to SQLyog Profi](#)

## Inserted values into the table dim\_customer

The screenshot shows the SQLyog Community 64 interface. The left sidebar displays the database structure, including the 'salesmart\_db' database and its tables. The main window shows a query window with the following SQL statement:

```
INSERT INTO dim_customer ('customer_skey', 'customer_id', 'customer_name', 'first_name', 'last_name', 'customer_type', 'city', 'state', 'country', 'effective_start_date', 'effective_end_date')
VALUES
(1, 'AA-10315102', 'Alex Avila', 'Alex', 'Avila', 'Consumer', 'Marikina', 'National Capital', 'Philippines', '1900-01-01', '2999-12-31'),
(2, 'AA-10315120', 'Alex Avila', 'Alex', 'Avila', 'Consumer', 'Paris', 'Madrid', 'Spain', '1900-01-01', '2999-12-31'),
(3, 'AA-10315138', 'Alex Avila', 'Alex', 'Avila', 'Consumer', 'Birmingham', 'England', 'United Kingdom', '1900-01-01', '2999-12-31'),
(4, 'AA-103151402', 'Alex Avila', 'Alex', 'Avila', 'Consumer', 'Round Rock', 'Texas', 'United States', '1900-01-01', '2999-12-31'),
(5, 'AA-103151404', 'Alex Avila', 'Alex', 'Avila', 'Consumer', 'San Francisco', 'California', 'United States', '1900-01-01', '2999-12-31'),
(6, 'AA-103151406', 'Alex Avila', 'Alex', 'Avila', 'Consumer', 'New York City', 'New York', 'United States', '1900-01-01', '2999-12-31'),
(7, 'AA-10315145', 'Alex Avila', 'Alex', 'Avila', 'Consumer', 'Paris', 'Ile-de-France', 'France', '1900-01-01', '2999-12-31'),
(8, 'AA-10315148', 'Alex Avila', 'Alex', 'Avila', 'Consumer', 'Berlin', 'Berlin', 'Germany', '1900-01-01', '2999-12-31'),
(9, 'AA-10315158', 'Alex Avila', 'Alex', 'Avila', 'Consumer', 'Chennai', 'Tamil Nadu', 'India', '1900-01-01', '2999-12-31'),
(10, 'AA-1031517', 'Alex Avila', 'Alex', 'Avila', 'Consumer', 'Wollongong', 'New South Wales', 'Australia', '1900-01-01', '2999-12-31'),
(11, 'AA-10315182', 'Alex Avila', 'Alex', 'Avila', 'Consumer', 'Mexico City', 'Distrito Federal', 'Mexico', '1900-01-01', '2999-12-31'),
(12, 'AA-103751', 'Allen Arnold', 'Allen', 'Arnold', 'Consumer', 'Kabul', 'Kabul', 'Afghanistan', '1900-01-01', '2999-12-31'),
(13, 'AA-10375101', 'Allen Arnold', 'Allen', 'Arnold', 'Consumer', 'Lima', 'Lima (city)', 'Peru', '1900-01-01', '2999-12-31'),
(14, 'AA-103751402', 'Allen Arnold', 'Allen', 'Arnold', 'Consumer', 'Omaha', 'Nebraska', 'United States', '1900-01-01', '2999-12-31'),
(15, 'AA-103751404', 'Allen Arnold', 'Allen', 'Arnold', 'Consumer', 'Salem', 'Oregon', 'United States', '1900-01-01', '2999-12-31'),
(16, 'AA-103751406', 'Allen Arnold', 'Allen', 'Arnold', 'Consumer', 'Providence', 'Rhode Island', 'United States', '1900-01-01', '2999-12-31'),
(17, 'AA-103751408', 'Allen Arnold', 'Allen', 'Arnold', 'Consumer', 'Lebanon', 'Tennessee', 'United States', '1900-01-01', '2999-12-31'),
(18, 'AA-1037545', 'Allen Arnold', 'Allen', 'Arnold', 'Consumer', 'Angers', 'Pays de la Loire', 'France', '1900-01-01', '2999-12-31').
```

The query execution results show:

```
1 queries executed, 1 success, 0 errors, 0 warnings
Query: INSERT INTO 'dim_customer' ('customer_skey', 'customer_id', 'customer_name', 'first_name', 'last_name', 'customer_type', 'city',...
500 row(s) affected
Execution Time : 0.054 sec
Transfer Time : 0 sec
Total Time : 0.054 sec
```

The status bar at the bottom indicates: Query batch completed successfully, Exec: 0.054 sec, Total: 0.054 sec, Ln 131, Col 135, Connections: 2.

## Inserted values into dim\_date

The screenshot shows the SQLyog Community 64 interface. The left sidebar displays the database structure, including the 'salesmart\_db' database and its tables. The main window shows a query window with the following SQL statements:

```
INSERT INTO dim_date ('DateSkey', 'TheDate', 'TheYear', 'TheQuarter', 'TheMonth', 'TheWeek', 'DayOfYear', 'DayOfMonth', 'DayOf...')
VALUES
(20201208, '2020-12-08', 2020, 4, 12, 50, 343, 8, 3),
(20201209, '2020-12-09', 2020, 4, 12, 50, 344, 9, 4),
(20201210, '2020-12-10', 2020, 4, 12, 50, 345, 10, 5),
(20201211, '2020-12-11', 2020, 4, 12, 50, 346, 11, 6),
(20201212, '2020-12-12', 2020, 4, 12, 50, 347, 12, 7),
(20201213, '2020-12-13', 2020, 4, 12, 51, 348, 13, 1),
(20201214, '2020-12-14', 2020, 4, 12, 51, 349, 14, 2),
(20201215, '2020-12-15', 2020, 4, 12, 51, 350, 15, 3),
(20201216, '2020-12-16', 2020, 4, 12, 51, 351, 16, 4),
(20201217, '2020-12-17', 2020, 4, 12, 51, 352, 17, 5),
(20201218, '2020-12-18', 2020, 4, 12, 51, 353, 18, 6),
(20201219, '2020-12-19', 2020, 4, 12, 51, 354, 19, 7),
(20201220, '2020-12-20', 2020, 4, 12, 52, 355, 20, 1),
(20201221, '2020-12-21', 2020, 4, 12, 52, 356, 21, 2),
(20201222, '2020-12-22', 2020, 4, 12, 52, 357, 22, 3),
(20201223, '2020-12-23', 2020, 4, 12, 52, 358, 23, 4),
(20201224, '2020-12-24', 2020, 4, 12, 52, 359, 24, 5),
(20201225, '2020-12-25', 2020, 4, 12, 52, 360, 25, 6),
(20201226, '2020-12-26', 2020, 4, 12, 52, 361, 26, 7),
(20201227, '2020-12-27', 2020, 4, 12, 1, 362, 27, 1).
```

The query execution results show:

```
16 queries executed, 16 success, 0 errors, 0 warnings
Query: INSERT INTO 'dim_date' ('DateSkey', 'TheDate', 'TheYear', 'TheQuarter', 'TheMonth', 'TheWeek', 'DayOfYear', 'DayOfMonth', 'DayOf...
500 row(s) affected
Execution Time : 0.034 sec
Transfer Time : 0 sec
Total Time : 0.034 sec
```

The second query is also shown:

```
Query: INSERT INTO 'dim_date' ('DateSkey', 'TheDate', 'TheYear', 'TheQuarter', 'TheMonth', 'TheWeek', 'DayOfYear', 'DayOfMonth', 'DayOf...
500 row(s) affected
Execution Time : 0.012 sec
Transfer Time : 0 sec
```

The status bar at the bottom indicates: Query batch completed successfully, Exec: 0.258 sec, Total: 0.259 sec, Ln 25288, Col 55, Connections: 2.



## Inserted values into dim\_product

SQLyog Community 64 - [itmd526 - root@localhost]

File Edit Favorites Database Table Others Tools PowerTools Transactions Window Help

itmd526 itmd526 x +

Filter Databases Filter (Ctrl+Shift+B)

- root@localhost
- assign\_rnkthta
- assign\_rnkthta
- information\_schema
- mysql
- performance\_schema
- salesmart\_db
- source\_db
- sys
- target\_db
- test

Generate schema synchronization scripts: Reason #22 to upgrade

Query 1 History salesmart\_db.sql x +

15092 (3760, 'OFF-AP-4405', 'Office Supplies', 'Appliances', 'Holmes Harmony HEFA Air Purifier for 17 x 20 Room', '1900-01-01', '2999-12-31'),

15093 (3761, 'FUR-BO-3444', 'Furniture', 'Bookcases', 'Bush Saratoga Collection 5-Shelf Bookcase, Hanover Cherry, 'Special Order', '1900-01-01', '2999-12-31'),

15094 (3762, 'OFF-EN-4922', 'Office Supplies', 'Envelopes', 'Jiffy Padded Mailers with Self-Seal Closure', '1900-01-01', '2999-12-31'),

15095 (3763, 'TEC-AC-5180', 'Technology', 'Accessories', 'Maxell 4.7GB DVD-RW 3/Pack', '1900-01-01', '2999-12-31'),

15096 (3764, 'OFF-PA-4502', 'Office Supplies', 'Paper', 'Xerox 1941', '1900-01-01', '2999-12-31'),

15097 (3765, 'OFF-SA-4514', 'Office Supplies', 'Paper', 'Xerox 1858', '1900-01-01', '2999-12-31'),

15098 (3766, 'FUR-TA-3773', 'Furniture', 'Tables', 'Chromcraft Training Table, Adjustable Height', '1900-01-01', '2999-12-31'),

15099 (3767, 'TEC-MA-6625', 'Technology', 'Machines', 'Xerox WorkCentre 6505DN Laser Multifunction Printer', '1900-01-01', '2999-12-31'),

15100 (3768, 'TEC-MA-5015', 'Technology', 'Machines', 'Cisco TelePresence System EX90 Videoconferencing Unit', '1900-01-01', '2999-12-31'),

15101 (3769, 'OFF-SA-4540', 'Office Supplies', 'Paper', 'Xerox 1859', '1900-01-01', '2999-12-31'),

15102 (3770, 'OFF-BI-4411', 'Office Supplies', 'Binders', 'Wilson Jones Suede Grain Vinyl Binders', '1900-01-01', '2999-12-31'),

15103 (3771, 'TEC-AC-5234', 'Technology', 'Accessories', 'Microsoft Arc Touch Mouse', '1900-01-01', '2999-12-31'),

15104 (3772, 'TEC-MA-4214', 'Technology', 'Machines', 'Epson WorkForce WF-2530 All-in-One Printer, Copier Scanner', '1900-01-01', '2999-12-31'),

15105 (3773, 'OFF-PA-4470', 'Office Supplies', 'Paper', 'Xerox 1923', '1900-01-01', '2999-12-31'),

15106 (3774, 'TEC-RS-5660', 'Technology', 'Phones', 'RCA VL5TS 2542SRE1 Corded phone', '1900-01-01', '2999-12-31'),

15107 (3775, 'TEC-MA-4600', 'Technology', 'Machines', 'Hewlett-Packard Deskjet 6980DT Refurbished Printer', '1900-01-01', '2999-12-31'),

15108 (3776, 'TEC-AC-4947', 'Technology', 'Accessories', 'Kingston Digital DataTraveler 440B USB 2.0', '1900-01-01', '2999-12-31'),

15109 (3777, 'TEC-MA-3781', 'Technology', 'Machines', 'Cisco 8961 IP Phone Charcoal', '1900-01-01', '2999-12-31'),

15110 (3778, 'OFF-AP-3366', 'Office Supplies', 'Appliances', 'Belkin 7 Outlet SurgeMaster Surge Protector with Phone Protection', '1900-01-01', '2999-12-31'),

15111 (3779, 'OFF-DO-5981', 'Office Supplies', 'Supplies', 'Serrated Blade or Curved Handle Hand Letter Openers', '1900-01-01', '2999-12-31'),

15112 (3780, 'TEC-MA-3789', 'Technology', 'Machines', 'Cisco Desktop Collaboration Experience DM650 IP Video Phone', '1900-01-01', '2999-12-31'),

15113 (3781, 'OFF-PA-4542', 'Office Supplies', 'Paper', 'Xerox 1904', '1900-01-01', '2999-12-31'),

15114 (3782, 'OFF-EN-5275', 'Office Supplies', 'Envelopes', 'Multimedia Mailers', '1900-01-01', '2999-12-31'),

15115 (3783, 'OFF-PA-5675', 'Office Supplies', 'Paper', 'Rediform S.O.S. Phone Message Books', '1900-01-01', '2999-12-31'),

15116 (3784, 'OFF-ST-3926', 'Office Supplies', 'Storage', 'Deoxflex Hanging Personal Folder File', '1900-01-01', '2999-12-31'),

15117 (3785, 'TEC-RS-5537', 'Technology', 'Phones', 'Panasonic BusinessTelephonesBX-TT704', '1900-01-01', '2999-12-31'),

15118 (3786, 'OFF-AP-3370', 'Office Supplies', 'Appliances', 'Belkin 8 Outlet SurgeMaster II Gold Surge Protector with Phone Protection', '1900-01-01', '2999-12-31'),

15119 (3787, 'TEC-MA-4598', 'Technology', 'Machines', 'Hewlett-Packard Deskjet D4360 Printer', '1900-01-01', '2999-12-31'),

15120 (3788, 'TEC-MA-4598', 'Technology', 'Machines', 'Hewlett-Packard Deskjet D4360 Printer', '1900-01-01', '2999-12-31'),

1 Messages 2 Table Data 3 Info

8 queries executed, 8 success, 0 errors, 0 warnings

Query: INSERT INTO 'dim\_product' ('product\_key', 'product\_id', 'category', 'sub\_category', 'product\_name', 'effective\_start\_date', 'ef...

500 row(s) affected

Execution Time : 0.022 sec  
Transfer Time : 0 sec  
Total Time : 0.022 sec

Query batch completed successfully Exec: 0.178 sec Total: 0.178 sec Ln 29125, Col 1 Connections: 2 Upgrade to SQLyog Professional/Enterprise

## Inserted values into dim\_junk

SQLyog Community 64 - [itmd526 - root@localhost]

File Edit Favorites Database Table Others Tools PowerTools Transactions Window Help

itmd526 itmd526 x +

Filter Databases Filter (Ctrl+Shift+B)

- root@localhost
- assign\_rnkthta
- assign\_rnkthta
- information\_schema
- mysql
- performance\_schema
- salesmart\_db
- source\_db
- sys
- target\_db
- test

Form View: conveniently browse through your data, one row at a time: Reason #75 to upgrade

Query 1 History salesmart\_db.sql x +

25301 (20201231, '2020-12-31', 2020, 4, 12, 1, 366, 31, 5);

25302

25303 INSERT INTO 'dim\_junk' ('junk\_key', 'ship\_mode', 'order\_priority') VALUES

25304 (1, 'First Class', 'High'),

25305 (2, 'Second Class', 'Critical'),

25306 (3, 'First Class', 'Medium'),

25307 (4, 'Same Day', 'Critical'),

25308 (5, 'First Class', 'Critical'),

25309 (6, 'Standard Class', 'High'),

25310 (7, 'Standard Class', 'Low'),

25311 (8, 'Second Class', 'High'),

25312 (9, 'Standard Class', 'Medium'),

25313 (10, 'Second Class', 'Medium'),

25314 (11, 'Same Day', 'High'),

25315 (12, 'Same Day', 'Medium');

25316

25317 INSERT INTO 'dim\_product' ('product\_key', 'product\_id', 'category', 'sub\_category', 'product\_name', 'effective\_start\_date', 'effective\_end\_date') VALUES

25318 (-1, 'Unknown', 'Unknown', 'Unknown', 'Unknown', '1900-01-01', '2999-12-31'),

25319 (1, 'TEC-RS-5816', 'Technology', 'Phones', 'Samsung Convoy 3', '1900-01-01', '2013-12-31'),

25320 (2, 'FUR-CB-5379', 'Furniture', 'Chairs', 'Movimex Executive Leather Armchair, Black', '1900-01-01', '2999-12-31'),

1 Messages 2 Table Data 3 Info

1 queries executed, 1 success, 0 errors, 0 warnings

Query: INSERT INTO 'dim\_junk' ('junk\_key', 'ship\_mode', 'order\_priority') VALUES (1, 'First Class', 'High'), (2, 'Second Class', 'Crit...

12 row(s) affected

Execution Time : 0.010 sec  
Transfer Time : 0 sec  
Total Time : 0.011 sec

Query batch completed successfully Exec: 0.010 sec Total: 0.011 sec Ln 25316, Col 1 Connections: 2 Upgrade to SQLyog Professional/Enterprise

## Inserted values into sales\_transaction

SQLyog Community 64 - [itmd526 - root@localhost]

File Edit Favorites Database Table Others Tools PowerTools Transactions Window Help

itmd526 itmd526 x +

Query Profiler identifies whether indexes are being used effectively - Reason #58 to upgrade

Filter (Ctrl+Shift+B)

Query 1 History salesmart\_db.sql x +

root@localhost

assign\_rnkthta

information\_schema

myad

performance\_schema

salesmart\_db

source\_db

sys

target\_db

test

10588 (35397, '09-2015-ZC21910140-42175', '2015-06-20', '2015-06-24', 'Standard Class', 'Medium', 'ZC-219101402', 'OFF-AP-4411', 2.26, 0.8, 1, 0.45),

10589 (12762, 'ES-2015-MM17920139-42147', '2015-05-25', '2015-05-25', 'First Class', 'Medium', 'MM-17920139', 'OFF-BI-4509', 27.30, 0, 2, 54.60),

10590 (36230, 'CA-2013-ZC21910140-41545', '2013-09-28', '2013-10-04', 'Standard Class', 'Medium', 'ZC-219101404', 'OFF-BI-6391', 1.08, 0.7, 2, 0.65),

10591 (35398, '09-2015-ZC21910140-42175', '2015-06-20', '2015-06-24', 'Standard Class', 'Medium', 'ZC-219101402', 'OFF-AP-4739', 0.44, 0.8, 1, 0.09),

10592 (35111, 'CA-2014-ZD21925140-41029', '2014-07-09', '2014-07-09', 'Same Day', 'Medium', 'ZD-219251408', 'TEC-BB-4595', 823.96, 0.2, 5, 3295.84),

10593 (11316, 'CA-2013-ZD21925140-41147', '2013-08-26', '2013-08-31', 'Second Class', 'High', 'ZD-219251404', 'TEC-BB-3808', 213.45, 0.2, 3, 912.35),

10594 (6367, 'MK-2012-BF1123082-41264', '2012-12-21', '2012-12-25', 'Standard Class', 'Medium', 'BF-1123082', 'OFF-BI-2694', 36.48, 0, 4, 145.92),

10595 (22589, 'IN-2015-AO108107-42333', '2015-11-25', '2015-11-30', 'Standard Class', 'Medium', 'AO-108107', 'OFF-EN-4447', 47.14, 0.1, 2, 84.85),

10596 (37195, 'CA-2014-ZD21925140-41733', '2014-04-04', '2014-04-10', 'Standard Class', 'Medium', 'ZD-219251402', 'TEC-BB-5612', 259.96, 0, 4, 1039.84),

10597 (27081, 'ZD-2013-BE1195102-41496', '2013-05-10', '2013-05-11', 'First Class', 'Medium', 'BE-1195102', 'OFF-PA-1149', 49.30, 0.45, 3, 81.34),

10598 (39638, 'CA-2015-ZD21925140-42167', '2015-06-12', '2015-06-15', 'First Class', 'High', 'ZD-219251404', 'OFF-AP-4929', 61.44, 0, 3, 184.32),

10599 (47274, 'SA-2015-JW6075110-42103', '2015-04-09', '2015-04-13', 'Standard Class', 'Medium', 'JW-6075110', 'OFF-BI-3735', 5.34, 0, 1, 5.34),

10600 (15975, 'ES-2012-MM18055139-41038', '2012-05-09', '2012-05-13', 'Standard Class', 'Medium', 'MM-18055139', 'OFF-AR-6120', 200.40, 0, 8, 1603.20),

10601 (13800, 'ES-2015-MM1852045-42221', '2015-08-05', '2015-08-11', 'Standard Class', 'Medium', 'MM-1852045', 'OFF-IA-3273', 17.85, 0, 2, 35.76),

10602 (37194, 'CA-2014-ZD21925140-41733', '2014-04-04', '2014-04-10', 'Standard Class', 'Medium', 'ZD-219251402', 'FUB-FU-5983', 71.12, 0, 4, 284.48),

10603 (5465, 'MK-2015-AA1048031-42111', '2015-04-17', '2015-04-20', 'Second Class', 'Medium', 'AA-1048031', 'OFF-AR-3547', 19.32, 0, 2, 38.64),

10604 (9309, 'MK-2015-SL2015518-42258', '2015-09-11', '2015-09-12', 'First Class', 'High', 'SL-2015518', 'OFF-IA-5403', 5.92, 0, 1, 5.92),

10605 (5596, 'MK-2014-SB2041082-41912', '2014-09-30', '2014-10-02', 'Second Class', 'High', 'SB-2041082', 'OFF-BI-4830', 41.64, 0, 6, 249.84),

10606 (46231, 'ZA-2012-AS285147-40988', '2012-03-20', '2012-03-25', 'Standard Class', 'Medium', 'AS-285147', 'OFF-AR-5911', 5.61, 0.7, 2, 5.77),

10607 (31317, 'CA-2012-ZD21925140-41147', '2012-08-26', '2012-08-31', 'Second Class', 'High', 'ZD-219251404', 'OFF-BI-6395', 22.72, 0.2, 4, 72.70),

10608 (46582, 'TU-2015-MF6285134-42337', '2015-11-29', '2015-11-30', 'First Class', 'Medium', 'MF-6285134', 'OFF-AR-3546', 34.13, 0.6, 6, 81.91),

10609 (10410, 'ES-2013-BE1193548-41245', '2013-12-02', '2013-12-02', 'Same Day', 'Medium', 'BE-1193548', 'OFF-BI-2900', 52.59, 0, 1, 52.59),

10610 (43812, 'MI-2014-PD86555-41159', '2014-09-07', '2014-09-09', 'Second Class', 'High', 'PD-86555', 'OFF-AR-6113', 5.36, 0.7, 1, 1.61),

10611 (35112, 'CA-2014-ZD21925140-41829', '2014-07-09', '2014-07-09', 'Same Day', 'Medium', 'ZD-219251408', 'OFF-PA-6474', 15.96, 0.2, 2, 25.57),

10612 (6039, 'MK-2015-BB1502518-42164', '2015-06-09', '2015-06-11', 'First Class', 'High', 'BB-1502518', 'OFF-PA-4475', 84.00, 0, 5, 420.00),

10613 (24175, 'IN-2015-BB132707-42221', '2015-08-05', '2015-08-10', 'Standard Class', 'Medium', 'BB-132707', 'OFF-BI-3253', 55.05, 0.1, 5, 261.22),

10614 (24105, 'IN-2015-MB1633058-42154', '2015-05-30', '2015-05-30', 'Same Day', 'High', 'MB-1633058', 'OFF-PA-4007', 26.54, 0, 2, 53.88),

10615 (9922, 'MK-2013-MM1637593-41636', '2013-12-28', '2013-12-31', 'First Class', 'Medium', 'MM-1637593', 'OFF-PA-5676', 18.64, 0, 1, 18.64),

103 queries executed, 103 success, 0 errors, 0 warnings

Query: INSERT INTO 'sales\_transaction' ('id', 'order\_id', 'order\_date', 'ship\_date', 'ship\_mode', 'order\_priority', 'customer\_id', 'pro...

500 row(s) affected

Execution Time : 0.038 sec

Transfer Time : 0 sec

Total Time : 0.038 sec

All

http://www.webyog.com Exec: 1.778 sec Total: 1.790 sec Ln 80612, Col 31 Connections: 2 Upgrade to SQLyog Prof

### 3. Create SQL queries below

- An SQL query that performs surrogate key pipeline and dummy row processing to populate the fact table
- SQL queries for auditing the resulting fact table:
  - Row count comparison between the sales trasations and the fact table
  - Total sales quantity/amount comparison between the sales transaction and the fact table

### Performed Surrogate key pipelining, formed fact table

Format current query : Reason #62 to upgrade

```
1 INSERT INTO fact_orders
2 SELECT od.DateKey AS order_date_key,
3        sd_d.DateKey AS ship_date_key,
4        IFNULL(dc.customer_key, -1) AS customer_key,
5        IFNULL(dp.product_key, -1) AS product_key,
6        dj.junk_key,
7        st.order_id,
8        st.unit_sales_amount,
9        st.sales_quantity,
10       st.discount_percent,
11       st.extended_sales_amount
12
13 FROM salesmart_db.sales_transaction AS st
14 LEFT OUTER JOIN salesmart_db.dim_date od
15     ON st.order_date = od.TheDate
16
17 LEFT OUTER JOIN salesmart_db.dim_date sd_d
18     ON st.ship_date = sd_d.TheDate
19
20 LEFT OUTER JOIN salesmart_db.dim_customer dc
21     ON st.customer_id = dc.customer_id
22     AND st.order_date BETWEEN dc.effective_start_date AND dc.effective_end_date
23
24 LEFT OUTER JOIN salesmart_db.dim_product dp
25     ON st.product_id = dp.product_id
26     AND st.order_date BETWEEN dp.effective_start_date AND dp.effective_end_date
27
28 INNER JOIN salesmart_db.dim_junk dj
29     ON st.order_priority = dj.order_priority AND st.ship_mode = dj.ship_mode
```

1 Messages 2 Table Data 3 Info

1 queries executed, 1 success, 0 errors, 0 warnings

Query: INSERT INTO fact\_orders SELECT od.DateKey AS order\_date\_key, sd\_d.DateKey AS ship\_date\_key, IFNULL(dc.customer\_key, -1) AS ...

51290 row(s) affected

Execution Time : 2.135 sec  
Transfer Time : 0 sec  
Total Time : 2.136 sec

Query batch completed successfully Exec: 2.135 sec Total: 2.136 sec Ln 1, Col 52 Connections: 2 Upgrade to SQLyog Professional/Enterprise/Ultimate

### Generated Fact Table:

Query Profiler analyzes queries and helps you optimize them : Reason #55 to upgrade

1 Result 2 Profiler 3 Messages 4 Table Data 5 Info

(Read Only) Unit rows First row 0 # of rows 1000

order_date_key	ship_date_key	customer_key	product_key	junk_key	order_id	unit_sales_amount	sales_quantity	discount_percent	extended_sales_am
20141111	20141113	89	4096		1 CA-2014-AB10015140-41954	221.98	2	0	
20140205	20140207	8873	2		2 IN-2014-JR162107-41675	3709.39	9	0.1	31
20141017	20141018	3702	4097		3 IN-2014-JR127307-41929	5175.17	9	0.1	4
20140128	20140130	9576	4		3 ES-2014-SM1637548-41667	2692.51	5	0.1	1
20141105	20141106	14168	8		4 SO-2014-BH9495111-41948	2032.96	8	0	2
20140428	20140701	8637	6		2 IN-2014-JM1545957-41818	2842.68	5	0.1	1
20121104	20121108	16815	7		5 IN-2012-TS2134092-41219	1822.08	4	0	
20130414	20130418	10639	8		6 IN-2013-MB1808592-41378	5244.84	6	0	3
20141111	20141113	89	9		1 CA-2014-AB10015140-41954	341.96	2	0	
20120306	20120307	90	10		1 CA-2012-AB10015140-40974	48.71	1	0.2	
20120306	20120307	90	11		1 CA-2012-AB10015140-40974	17.94	3	0	
20130419	20130422	786	12		1 ID-2013-AJ107801-41383	4626.15	5	0	2
20121226	20121228	11589	13		2 SA-2012-MH7260110-41269	2616.96	4	0	1
20131113	20131113	17101	14		4 MX-2013-VF2171518-41591	2221.60	7	0	1
20140606	20140608	12938	15		2 IN-2014-PF1912027-41796	3701.52	12	0	4
20150731	20150903	-1	16		2 ES-2015-BP1118545-42216	1869.59	4	0.1	
20120219	20120225	89	17		7 CA-2012-AB10015140-40958	12.42	2	0.2	
20150908	20150914	13082	18		7 ES-2015-PJ1893564-42255	7958.58	14	0	11
20150131	20150201	8920	19		5 IN-2015-JS154857-42035	2565.59	9	0.1	2
20151205	20151207	14179	20		8 TZ-2015-BH9555129-42343	3409.74	6	0	2
20130808	20130810	238	21		5 PL-2013-AB400103-41494	1977.72	4	0	
20120306	20120307	90	22		1 CA-2012-AB10015140-40974	242.94	3	0	
20120501	20120502	8266	23		5 IN-2012-JK1532527-41030	2754.00	6	0	14
20140227	20140301	9648	24		8 ES-2014-LB16795139-41697	5273.70	10	0	5
20150731	20150801	12550	25		5 US-2015-PF1832582-42216	1713.84	4	0	
20150905	20150908	17088	26		5 MX-2015-VD2167039-42252	2106.50	8	0.2	1
20121216	20121219	12848	27		5 IN-2012-PB19210127-41259	1715.16	2	0	

SELECT \* FROM fact\_orders LIMIT 0, 1000

http://www.webyog.com Exec: 0.010 sec Total: 0.010 sec 1000 row(s) Ln 33, Col 1 Connections: 2 Upgrade to SQLyog Professional/Enterprise/Ultimate

## Row count of Sales Transaction table

The screenshot shows the SQLyog Community 64 interface. The left sidebar displays the database structure for 'salesmart\_db', with 'fact\_orders' and 'sales\_transaction' tables visible. The main query window shows a query that counts rows in 'sales\_transaction'.

```
Query 1 X History salesmart_db.sql +
24 LEFT OUTER JOIN salesmart_db.dim_product dp
25 ON st.product_id = dp.product_id
26 AND st.order_date BETWEEN dp.effective_start_date AND dp.effective_end_date
27
28 INNER JOIN salesmart_db.dim_junk dj
29 ON st.order_priority = dj.order_priority AND st.ship_mode = dj.ship_mode
30
31 SELECT * FROM fact_orders;
32
33 SELECT COUNT(*) FROM 'sales_transaction'
```

The result pane shows the count of rows in 'sales\_transaction' as 51290.

## Row count of the generated Fact table

The screenshot shows the SQLyog Community 64 interface. The left sidebar displays the database structure for 'salesmart\_db', with 'fact\_orders' and 'sales\_transaction' tables visible. The main query window shows a query that counts rows in 'fact\_orders'.

```
Query 1 X History salesmart_db.sql +
27 AND st.order_date BETWEEN dp.effective_start_date AND dp.effective_end_date
28
29 INNER JOIN salesmart_db.dim_junk dj
30 ON st.order_priority = dj.order_priority AND st.ship_mode = dj.ship_mode
31
32 SELECT * FROM fact_orders;
33
34 SELECT COUNT(*) FROM 'sales_transaction'
35
36 SELECT COUNT(*) FROM 'fact_orders'
```

The result pane shows the count of rows in 'fact\_orders' as 51290.

## Comparison of Fact table and Sales Transaction Table

The screenshot shows the SQLyog Community 64 interface. The left sidebar displays the database structure for 'salesmart\_db', with 'fact\_orders' and 'sales\_transaction' tables visible. The main query window shows a query that compares the row counts of 'fact\_orders' and 'sales\_transaction'.

```
Query 1 X History salesmart_db.sql +
26 AND st.order_date BETWEEN dp.effective_start_date AND dp.effective_end_date
27
28 INNER JOIN salesmart_db.dim_junk dj
29 ON st.order_priority = dj.order_priority AND st.ship_mode = dj.ship_mode
30
31 SELECT * FROM fact_orders;
32
33 SELECT COUNT(*) FROM 'sales_transaction'
34
35 SELECT COUNT(*) FROM 'fact_orders'
36
37 SELECT (SELECT COUNT(*) FROM 'sales_transaction')=(SELECT COUNT(*) FROM 'fact_orders') AS RowCountResult;
```

The result pane shows the comparison result as 1.

## Comparison of total sales between Fact table and Sales Transaction table

SQLyog Community 64 - [itmd526/salesmart\_db - root@localhost]

File Edit Favorites Database Table Others Tools Powertools Transactions Window Help

itmd526

Filter tables in salesmart\_db

- assign2\_nkshtha
- assign3\_nkshtha
- information\_schema
- mysql
- performance\_schema
- salesmart\_db**
  - Tables
    - dim\_customer
    - dim\_date
    - dim\_junk
    - dim\_product
    - fact\_orders
    - Columns
      - order\_date\_key
      - ship\_date\_key
      - customer\_key
      - product\_key
      - junk\_key
      - order\_id
      - unit\_sales\_amt
      - sales\_quantity
      - discount\_percent
      - extended\_sales
  - Indexes
    - sales\_transaction
      - Columns
        - id
        - order\_id

Compare the contents of two databases using Data Sync Tool : Reason #27 to upgrade

Query 1 X History salesmart\_db.sql

```
20 LEFT OUTER JOIN salesmart_db.dim_customer dc
21 ON st.customer_id = dc.customer_id
22 AND st.order_date BETWEEN dc.effective_start_date AND dc.effective_end_date
23
24 LEFT OUTER JOIN salesmart_db.dim_product dp
25 ON st.product_id = dp.product_id
26 AND st.order_date BETWEEN dp.effective_start_date AND dp.effective_end_date
27
28 INNER JOIN salesmart_db.dim_junk dj
29 ON st.order_priority = dj.order_priority AND st.ship_mode = dj.ship_mode
30
31 SELECT * FROM fact_orders;
32
33 SELECT COUNT(*) FROM 'sales_transaction'
34
35 SELECT COUNT(*) FROM 'fact_orders'
36
37 SELECT (SELECT COUNT(*) FROM 'sales_transaction')=(SELECT COUNT(*) FROM 'fact_orders') AS RowCountResult;
38
39 SELECT (SELECT SUM('unit_sales_amt'+'sales_quantity') FROM 'fact_orders') = (SELECT SUM('unit_sales_amt'+'sales_quantity') FROM 'sales_transaction') AS SumQuantityResult;
40
41
```

1 Result 2 Profiler 3 Messages 4 Table Data 5 Info

(Read Only)

RowCountResult

1
---

Unit rows First row 0 # of rows 1000