## atliq\_hardware\_db

## February 6, 2025

```
[1]: %load_ext sql
[3]: | %sql mysql+pymysql://root:techoexpert321!!@localhost:3310/
[3]: | %sql CREATE DATABASE IF NOT EXISTS atliq_hardware_db;
     * mysql+pymysql://root:***@localhost:3310/
    1 rows affected.
[3]: []
[4]: %sql SHOW DATABASES;
     * mysql+pymysql://root:***@localhost:3310/
       mysql+pymysql://root:***@localhost:3310/atliq_hardware_db
    25 rows affected.
[4]: [('atliq_hardware_db',),
      ("b'atliq_hardware_db'",),
      ('ci_testing',),
      ('classicmodels',),
      ('customer_product',),
      ('dannys_dinner',),
      ('demo',),
      ('ecommerce',),
      ('gdb023',),
      ('information_schema',),
      ('international_debt_stats',),
      ('loan',),
      ('meal_planner',),
      ('mysql',),
      ('performance_schema',),
      ('php_testing',),
      ('pizza_db',),
      ('products',),
      ('sakila',),
      ('sample_data',),
      ('spotify_db',),
      ('supermarket_sales',),
```

```
('sys',),
       ('task portal',),
       ('university_db',)]
 [5]: %sql mysql+pymysql://root:techoexpert321!!@localhost:3310/atliq_hardware_db
 [6]: %sql SHOW TABLES;
        mysql+pymysql://root:***@localhost:3310/
      * mysql+pymysql://root:***@localhost:3310/atliq_hardware_db
     6 rows affected.
 [6]: [('dim customer',),
       ('dim_product',),
       ('fact gross price',),
       ('fact_manufacturing_cost',),
       ('fact_pre_invoice_deductions',),
       ('fact_sales_monthly',)]
[13]: %sql Select * From dim_customer;
        mysql+pymysql://root:***@localhost:3310/
      * mysql+pymysql://root:***@localhost:3310/atliq_hardware_db
     209 rows affected.
[13]: [(70002017, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'India', 'India',
       (70002018, 'Atliq e Store', 'E-Commerce', 'Direct', 'India', 'India', 'APAC'),
       (70003181, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'Indonesia', 'ROA',
      'APAC'),
       (70003182, 'Atliq e Store', 'E-Commerce', 'Direct', 'Indonesia', 'ROA',
      'APAC'),
       (70004069, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'Japan', 'ROA',
      'APAC'),
       (70004070, 'Atliq e Store', 'E-Commerce', 'Direct', 'Japan', 'ROA', 'APAC'),
       (70005163, 'Atliq e Store', 'E-Commerce', 'Direct', 'Pakistan', 'ROA', 'APAC'),
       (70006157, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'Philiphines', 'ROA',
      'APAC'),
       (70006158, 'Atliq e Store', 'E-Commerce', 'Direct', 'Philiphines', 'ROA',
      'APAC'),
       (70007198, 'Atlig Exclusive', 'Brick & Mortar', 'Direct', 'South Korea', 'ROA',
      'APAC'),
       (70007199, 'Atliq e Store', 'E-Commerce', 'Direct', 'South Korea', 'ROA',
      'APAC'),
       (70008169, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'Australia', 'ANZ',
       (70008170, 'Atliq e Store', 'E-Commerce', 'Direct', 'Australia', 'ANZ',
      'APAC'),
```

```
(70009133, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'Newzealand', 'ANZ',
'APAC'),
 (70009134, 'Atliq e Store', 'E-Commerce', 'Direct', 'Newzealand', 'ANZ',
(70010047, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'Bangladesh', 'ROA',
'APAC'),
(70010048, 'Atliq e Store', 'E-Commerce', 'Direct', 'Bangladesh', 'ROA',
'APAC'),
(70011193, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'France', 'SE',
 (70011194, 'Atliq e Store', 'E-Commerce', 'Direct', 'France', 'SE', 'EU'),
 (70012042, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'Germany', 'NE',
'EU'),
 (70012043, 'Atliq e Store', 'E-Commerce', 'Direct', 'Germany', 'NE', 'EU'),
 (70013125, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'Italy', 'SE', 'EU'),
 (70013126, 'Atliq e Store', 'E-Commerce', 'Direct', 'Italy', 'SE', 'EU'),
 (70014142, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'Netherlands', 'NE',
(70014143, 'Atliq e Store', 'E-Commerce', 'Direct', 'Netherlands', 'NE', 'EU'),
 (70015151, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'Norway', 'NE',
(70015152, 'Atliq e Store', 'E-Commerce', 'Direct', 'Norway', 'NE', 'EU'),
(70016177, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'Poland', 'NE',
 (70016178, 'Atliq e Store', 'E-Commerce', 'Direct', 'Poland', 'NE', 'EU'),
 (70017060, 'Atliq e Store', 'E-Commerce', 'Direct', 'Portugal', 'SE', 'EU'),
 (70018115, 'Atliq e Store', 'E-Commerce', 'Direct', 'Spain', 'SE', 'EU'),
 (70019204, 'Atliq e Store', 'E-Commerce', 'Direct', 'Sweden', 'NE', 'EU'),
 (70020104, 'Atliq e Store', 'E-Commerce', 'Direct', 'Austria', 'NE', 'EU'),
 (70021096, 'Atliq e Store', 'E-Commerce', 'Direct', 'United Kingdom', 'NE',
'EU'),
 (70022084, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'USA', 'NA', 'NA'),
 (70022085, 'Atliq e Store', 'E-Commerce', 'Direct', 'USA', 'NA', 'NA'),
(70023031, 'Atliq Exclusive', 'Brick & Mortar', 'Direct', 'Canada', 'NA',
 (70023032, 'Atliq e Store', 'E-Commerce', 'Direct', 'Canada', 'NA', 'NA'),
(70026206, 'Atliq e Store', 'E-Commerce', 'Direct', 'Mexico', 'LATAM',
'LATAM'),
(70027208, 'Atlig e Store', 'E-Commerce', 'Direct', 'Brazil', 'LATAM',
'LATAM'),
(80001019, 'Neptune', 'Brick & Mortar', 'Distributor', 'China', 'ROA', 'APAC'),
(80006154, 'Synthetic', 'Brick & Mortar', 'Distributor', 'Philiphines', 'ROA',
'APAC'),
(80006155, 'Novus', 'Brick & Mortar', 'Distributor', 'Philiphines', 'ROA',
'APAC'),
(80007195, 'Sage', 'Brick & Mortar', 'Distributor', 'South Korea', 'ROA',
'APAC'),
```

```
(80007196, 'Leader', 'Brick & Mortar', 'Distributor', 'South Korea', 'ROA',
'APAC'),
 (90001020, 'Zone', 'Brick & Mortar', 'Retailer', 'China', 'ROA', 'APAC'),
 (90001021, 'Taobao', 'E-Commerce', 'Retailer', 'China', 'ROA', 'APAC'),
 (90002001, 'Reliance Digital', 'Brick & Mortar', 'Retailer', 'India', 'India',
'APAC'),
 (90002002, 'Croma', 'Brick & Mortar', 'Retailer', 'India', 'India', 'APAC'),
 (90002003, 'Ezone', 'Brick & Mortar', 'Retailer', 'India', 'India', 'APAC'),
 (90002004, 'Vijay Sales', 'Brick & Mortar', 'Retailer', 'India', 'India',
'APAC'),
 (90002005, 'Lotus', 'Brick & Mortar', 'Retailer', 'India', 'India', 'APAC'),
 (90002006, 'Viveks', 'Brick & Mortar', 'Retailer', 'India', 'India', 'APAC'),
 (90002007, 'Girias', 'Brick & Mortar', 'Retailer', 'India', 'India', 'APAC'),
 (90002008, 'Amazon', 'E-Commerce', 'Retailer', 'India', 'India', 'APAC'),
 (90002009, 'Flipkart', 'E-Commerce', 'Retailer', 'India', 'India', 'APAC'),
 (90002010, 'Ebay', 'E-Commerce', 'Retailer', 'India', 'India', 'APAC'),
 (90002011, 'Atliq Exclusive', 'Brick & Mortar', 'Retailer', 'India', 'India',
(90002012, 'Electricalsocity', 'Brick & Mortar', 'Retailer', 'India', 'India',
'APAC'),
(90002013, 'Electricalslytical', 'Brick & Mortar', 'Retailer', 'India',
'India', 'APAC'),
(90002014, 'Expression', 'Brick & Mortar', 'Retailer', 'India', 'India',
 (90002015, 'Propel', 'Brick & Mortar', 'Retailer', 'India', 'India', 'APAC'),
 (90002016, 'Amazon ', 'E-Commerce', 'Retailer', 'India', 'India', 'APAC'),
 (90003179, 'Acclaimed Stores', 'Brick & Mortar', 'Retailer', 'Indonesia',
'ROA', 'APAC'),
(90003180, 'Amazon ', 'E-Commerce', 'Retailer', 'Indonesia', 'ROA', 'APAC'),
 (90004061, 'Info Stores', 'Brick & Mortar', 'Retailer', 'Japan', 'ROA',
'APAC'),
 (90004062, 'Flawless Stores', 'Brick & Mortar', 'Retailer', 'Japan', 'ROA',
(90004063, 'Electricalsbea Stores', 'Brick & Mortar', 'Retailer', 'Japan',
'ROA', 'APAC'),
(90004064, 'All-Out', 'Brick & Mortar', 'Retailer', 'Japan', 'ROA', 'APAC'),
 (90004065, 'Neptune', 'Brick & Mortar', 'Retailer', 'Japan', 'ROA', 'APAC'),
 (90004066, 'Surface Stores', 'Brick & Mortar', 'Retailer', 'Japan', 'ROA',
'APAC').
 (90004067, 'Amazon', 'E-Commerce', 'Retailer', 'Japan', 'ROA', 'APAC'),
 (90004068, 'Amazon ', 'E-Commerce', 'Retailer', 'Japan', 'ROA', 'APAC'),
 (90005159, 'Expression', 'Brick & Mortar', 'Retailer', 'Pakistan', 'ROA',
'APAC'),
(90005160, 'Nomad Stores', 'Brick & Mortar', 'Retailer', 'Pakistan', 'ROA',
'APAC'),
 (90005161, 'Zone', 'Brick & Mortar', 'Retailer', 'Pakistan', 'ROA', 'APAC'),
 (90005162, 'Amazon ', 'E-Commerce', 'Retailer', 'Pakistan', 'ROA', 'APAC'),
```

```
(90006153, 'Insight', 'Brick & Mortar', 'Retailer', 'Philiphines', 'ROA',
'APAC'),
 (90006156, 'Amazon ', 'E-Commerce', 'Retailer', 'Philiphines', 'ROA', 'APAC'),
(90007197, 'Amazon ', 'E-Commerce', 'Retailer', 'South Korea', 'ROA', 'APAC'),
 (90008164, 'Digimarket', 'Brick & Mortar', 'Retailer', 'Australia', 'ANZ',
'APAC'),
 (90008165, 'Forward Stores', 'Brick & Mortar', 'Retailer', 'Australia', 'ANZ',
'APAC'),
 (90008166, 'Sound', 'Brick & Mortar', 'Retailer', 'Australia', 'ANZ', 'APAC'),
 (90008167, 'Electricalsocity', 'Brick & Mortar', 'Retailer', 'Australia',
'ANZ', 'APAC'),
 (90008168, 'Amazon ', 'E-Commerce', 'Retailer', 'Australia', 'ANZ', 'APAC'),
 (90009127, 'Epic Stores', 'Brick & Mortar', 'Retailer', 'Newzealand', 'ANZ',
'APAC'),
(90009128, 'Propel', 'Brick & Mortar', 'Retailer', 'Newzealand', 'ANZ',
'APAC'),
(90009129, 'Leader', 'Brick & Mortar', 'Retailer', 'Newzealand', 'ANZ',
(90009130, 'Logic Stores', 'Brick & Mortar', 'Retailer', 'Newzealand', 'ANZ',
'APAC'),
 (90009131, 'Path', 'Brick & Mortar', 'Retailer', 'Newzealand', 'ANZ', 'APAC'),
 (90009132, 'Amazon ', 'E-Commerce', 'Retailer', 'Newzealand', 'ANZ', 'APAC'),
 (90010044, 'Surface Stores', 'Brick & Mortar', 'Retailer', 'Bangladesh', 'ROA',
'APAC').
 (90010045, 'Control', 'Brick & Mortar', 'Retailer', 'Bangladesh', 'ROA',
'APAC').
 (90010046, 'Amazon ', 'E-Commerce', 'Retailer', 'Bangladesh', 'ROA', 'APAC'),
 (90011185, 'Epic Stores', 'Brick & Mortar', 'Retailer', 'France', 'SE', 'EU'),
 (90011186, 'Elite', 'Brick & Mortar', 'Retailer', 'France', 'SE', 'EU'),
 (90011187, 'Chip 7', 'Brick & Mortar', 'Retailer', 'France', 'SE', 'EU'),
 (90011188, 'Elkjøp', 'Brick & Mortar', 'Retailer', 'France', 'SE', 'EU'),
 (90011189, 'UniEuro', 'Brick & Mortar', 'Retailer', 'France', 'SE', 'EU'),
 (90011190, 'Media Markt', 'Brick & Mortar', 'Retailer', 'France', 'SE', 'EU'),
 (90011191, 'Sorefoz', 'Brick & Mortar', 'Retailer', 'France', 'SE', 'EU'),
 (90011192, 'Amazon ', 'E-Commerce', 'Retailer', 'France', 'SE', 'EU'),
 (90012033, 'Digimarket', 'Brick & Mortar', 'Retailer', 'Germany', 'NE', 'EU'),
 (90012034, 'Otto', 'Brick & Mortar', 'Retailer', 'Germany', 'NE', 'EU'),
 (90012035, 'Notebillig', 'Brick & Mortar', 'Retailer', 'Germany', 'NE', 'EU'),
 (90012036, 'Billa', 'Brick & Mortar', 'Retailer', 'Germany', 'NE', 'EU'),
 (90012037, 'Saturn', 'Brick & Mortar', 'Retailer', 'Germany', 'NE', 'EU'),
(90012038, 'Expert', 'Brick & Mortar', 'Retailer', 'Germany', 'NE', 'EU'),
 (90012039, 'Currys (Dixons Carphone)', 'Brick & Mortar', 'Retailer', 'Germany',
'NE', 'EU'),
 (90012040, 'Fnac-Darty', 'Brick & Mortar', 'Retailer', 'Germany', 'NE', 'EU'),
 (90012041, 'Amazon ', 'E-Commerce', 'Retailer', 'Germany', 'NE', 'EU'),
 (90013116, 'Unity Stores', 'Brick & Mortar', 'Retailer', 'Italy', 'SE', 'EU'),
 (90013117, 'Euronics', 'Brick & Mortar', 'Retailer', 'Italy', 'SE', 'EU'),
```

```
(90013118, 'Fnac-Darty', 'Brick & Mortar', 'Retailer', 'Italy', 'SE', 'EU'),
 (90013119, "Argos (Sainsbury's)", 'Brick & Mortar', 'Retailer', 'Italy', 'SE',
 (90013120, 'Coolblue', 'Brick & Mortar', 'Retailer', 'Italy', 'SE', 'EU'),
 (90013121, 'Boulanger', 'Brick & Mortar', 'Retailer', 'Italy', 'SE', 'EU'),
 (90013122, 'Radio Popular', 'Brick & Mortar', 'Retailer', 'Italy', 'SE', 'EU'),
 (90013123, 'Expert', 'Brick & Mortar', 'Retailer', 'Italy', 'SE', 'EU'),
 (90013124, 'Amazon ', 'E-Commerce', 'Retailer', 'Italy', 'SE', 'EU'),
 (90014135, 'Electricalslance Stores', 'Brick & Mortar', 'Retailer',
'Netherlands', 'NE', 'EU'),
 (90014136, 'Reliance Digital', 'Brick & Mortar', 'Retailer', 'Netherlands',
'NE', 'EU'),
(90014137, 'Media Markt', 'Brick & Mortar', 'Retailer', 'Netherlands', 'NE',
'EU'),
(90014138, 'Mbit', 'Brick & Mortar', 'Retailer', 'Netherlands', 'NE', 'EU'),
 (90014139, 'Elkjøp', 'Brick & Mortar', 'Retailer', 'Netherlands', 'NE', 'EU'),
 (90014140, 'Radio Popular', 'Brick & Mortar', 'Retailer', 'Netherlands', 'NE',
 (90014141, 'Amazon', 'E-Commerce', 'Retailer', 'Netherlands', 'NE', 'EU'),
 (90015144, 'Sound', 'Brick & Mortar', 'Retailer', 'Norway', 'NE', 'EU'),
 (90015145, 'Synthetic', 'Brick & Mortar', 'Retailer', 'Norway', 'NE', 'EU'),
 (90015146, 'Mbit', 'Brick & Mortar', 'Retailer', 'Norway', 'NE', 'EU'),
 (90015147, 'Chiptec', 'Brick & Mortar', 'Retailer', 'Norway', 'NE', 'EU'),
 (90015148, 'Boulanger', 'Brick & Mortar', 'Retailer', 'Norway', 'NE', 'EU'),
 (90015149, 'UniEuro', 'Brick & Mortar', 'Retailer', 'Norway', 'NE', 'EU'),
 (90015150, 'Amazon ', 'E-Commerce', 'Retailer', 'Norway', 'NE', 'EU'),
 (90016171, 'Electricalsara Stores', 'Brick & Mortar', 'Retailer', 'Poland',
'NE', 'EU'),
 (90016172, 'Power', 'Brick & Mortar', 'Retailer', 'Poland', 'NE', 'EU'),
 (90016173, 'Expert', 'Brick & Mortar', 'Retailer', 'Poland', 'NE', 'EU'),
 (90016174, 'Currys (Dixons Carphone)', 'Brick & Mortar', 'Retailer', 'Poland',
'NE', 'EU'),
(90016175, "Argos (Sainsbury's)", 'Brick & Mortar', 'Retailer', 'Poland', 'NE',
'EU'),
(90016176, 'Amazon ', 'E-Commerce', 'Retailer', 'Poland', 'NE', 'EU'),
(90017049, 'Premium Stores', 'Brick & Mortar', 'Retailer', 'Portugal', 'SE',
'EU'),
(90017050, 'Electricalsara Stores', 'Brick & Mortar', 'Retailer', 'Portugal',
'SE', 'EU'),
(90017051, 'Forward Stores', 'Brick & Mortar', 'Retailer', 'Portugal', 'SE',
(90017052, 'Power', 'Brick & Mortar', 'Retailer', 'Portugal', 'SE', 'EU'),
(90017053, 'Info Stores', 'Brick & Mortar', 'Retailer', 'Portugal', 'SE',
'EU'),
(90017054, 'Flawless Stores', 'Brick & Mortar', 'Retailer', 'Portugal', 'SE',
 (90017055, 'Electricalslance Stores', 'Brick & Mortar', 'Retailer', 'Portugal',
```

```
'SE', 'EU'),
 (90017056, 'Sorefoz', 'Brick & Mortar', 'Retailer', 'Portugal', 'SE', 'EU'),
 (90017057, 'Euronics', 'Brick & Mortar', 'Retailer', 'Portugal', 'SE', 'EU'),
 (90017058, 'Mbit', 'Brick & Mortar', 'Retailer', 'Portugal', 'SE', 'EU'),
 (90017059, 'Amazon ', 'E-Commerce', 'Retailer', 'Portugal', 'SE', 'EU'),
 (90018105, 'Integration Stores', 'Brick & Mortar', 'Retailer', 'Spain', 'SE',
 (90018106, 'Flipkart', 'E-Commerce', 'Retailer', 'Spain', 'SE', 'EU'),
 (90018107, 'Elite', 'Brick & Mortar', 'Retailer', 'Spain', 'SE', 'EU'),
 (90018108, 'Relief', 'Brick & Mortar', 'Retailer', 'Spain', 'SE', 'EU'),
 (90018109, 'Chiptec', 'Brick & Mortar', 'Retailer', 'Spain', 'SE', 'EU'),
 (90018110, 'Boulanger', 'Brick & Mortar', 'Retailer', 'Spain', 'SE', 'EU'),
 (90018111, 'Media Markt', 'Brick & Mortar', 'Retailer', 'Spain', 'SE', 'EU'),
 (90018112, 'Euronics', 'Brick & Mortar', 'Retailer', 'Spain', 'SE', 'EU'),
 (90018113, 'Elkjøp', 'Brick & Mortar', 'Retailer', 'Spain', 'SE', 'EU'),
 (90018114, 'Amazon ', 'E-Commerce', 'Retailer', 'Spain', 'SE', 'EU'),
 (90019200, 'Sorefoz', 'Brick & Mortar', 'Retailer', 'Sweden', 'NE', 'EU'),
 (90019201, 'Expert', 'Brick & Mortar', 'Retailer', 'Sweden', 'NE', 'EU'),
 (90019202, "Argos (Sainsbury's)", 'Brick & Mortar', 'Retailer', 'Sweden', 'NE',
'EU'),
 (90019203, 'Amazon ', 'E-Commerce', 'Retailer', 'Sweden', 'NE', 'EU'),
 (90020097, 'Atlas Stores', 'Brick & Mortar', 'Retailer', 'Austria', 'NE',
'EU'),
 (90020098, 'Electricalsquipo Stores', 'Brick & Mortar', 'Retailer', 'Austria',
'NE', 'EU'),
 (90020099, 'Integration Stores', 'Brick & Mortar', 'Retailer', 'Austria', 'NE',
'EU'),
 (90020100, 'Nova', 'Brick & Mortar', 'Retailer', 'Austria', 'NE', 'EU'),
 (90020101, 'Euronics', 'Brick & Mortar', 'Retailer', 'Austria', 'NE', 'EU'),
 (90020102, 'Fnac-Darty', 'Brick & Mortar', 'Retailer', 'Austria', 'NE', 'EU'),
 (90020103, 'Amazon ', 'E-Commerce', 'Retailer', 'Austria', 'NE', 'EU'),
 (90021086, 'Electricalsquipo Stores', 'Brick & Mortar', 'Retailer', 'United
Kingdom', 'NE', 'EU'),
 (90021087, 'Logic Stores', 'Brick & Mortar', 'Retailer', 'United Kingdom',
'NE', 'EU'),
 (90021088, 'Electricalslytical', 'Brick & Mortar', 'Retailer', 'United
Kingdom', 'NE', 'EU'),
 (90021089, 'Atlas Stores', 'Brick & Mortar', 'Retailer', 'United Kingdom',
 (90021090, 'Radio Popular', 'Brick & Mortar', 'Retailer', 'United Kingdom',
'NE', 'EU'),
 (90021091, 'Expert', 'Brick & Mortar', 'Retailer', 'United Kingdom', 'NE',
 (90021092, 'UniEuro', 'Brick & Mortar', 'Retailer', 'United Kingdom', 'NE',
 (90021093, 'Chip 7', 'Brick & Mortar', 'Retailer', 'United Kingdom', 'NE',
'EU'),
```

```
(90021094, 'Coolblue', 'Brick & Mortar', 'Retailer', 'United Kingdom', 'NE',
'EU'),
 (90021095, 'Amazon ', 'E-Commerce', 'Retailer', 'United Kingdom', 'NE', 'EU'),
 (90022071, 'Acclaimed Stores', 'Brick & Mortar', 'Retailer', 'USA', 'NA',
'NA'),
 (90022072, 'Path', 'Brick & Mortar', 'Retailer', 'USA', 'NA', 'NA'),
 (90022073, 'Control', 'Brick & Mortar', 'Retailer', 'USA', 'NA', 'NA'),
 (90022074, 'Flipkart', 'E-Commerce', 'Retailer', 'USA', 'NA', 'NA'),
 (90022075, 'BestBuy', 'Brick & Mortar', 'Retailer', 'USA', 'NA', 'NA'),
 (90022076, 'Circuit City', 'Brick & Mortar', 'Retailer', 'USA', 'NA', 'NA'),
 (90022077, 'Radio Shack', 'Brick & Mortar', 'Retailer', 'USA', 'NA', 'NA'),
 (90022078, 'Costco', 'Brick & Mortar', 'Retailer', 'USA', 'NA', 'NA'),
 (90022079, 'walmart', 'Brick & Mortar', 'Retailer', 'USA', 'NA', 'NA'),
 (90022080, 'Staples', 'Brick & Mortar', 'Retailer', 'USA', 'NA', 'NA'),
 (90022081, 'Amazon', 'E-Commerce', 'Retailer', 'USA', 'NA', 'NA'),
 (90022082, 'Amazon ', 'E-Commerce', 'Retailer', 'USA', 'NA', 'NA'),
 (90022083, 'Ebay', 'E-Commerce', 'Retailer', 'USA', 'NA', 'NA'),
 (90023022, 'Nomad Stores', 'Brick & Mortar', 'Retailer', 'Canada', 'NA', 'NA'),
 (90023023, 'Amazon', 'E-Commerce', 'Retailer', 'Canada', 'NA', 'NA'),
 (90023024, 'Sage', 'Brick & Mortar', 'Retailer', 'Canada', 'NA', 'NA'),
 (90023025, 'Premium Stores', 'Brick & Mortar', 'Retailer', 'Canada', 'NA',
'NA'),
 (90023026, 'Relief', 'Brick & Mortar', 'Retailer', 'Canada', 'NA', 'NA'),
 (90023027, 'Costco', 'Brick & Mortar', 'Retailer', 'Canada', 'NA', 'NA'),
 (90023028, 'walmart', 'Brick & Mortar', 'Retailer', 'Canada', 'NA', 'NA'),
 (90023029, 'Staples', 'Brick & Mortar', 'Retailer', 'Canada', 'NA', 'NA'),
 (90023030, 'Amazon ', 'E-Commerce', 'Retailer', 'Canada', 'NA', 'NA'),
 (90024183, 'Electricalsbea Stores', 'Brick & Mortar', 'Retailer', 'Chile',
'LATAM', 'LATAM'),
 (90024184, 'Amazon ', 'E-Commerce', 'Retailer', 'Chile', 'LATAM', 'LATAM'),
 (90025209, 'Electricalsbea Stores', 'Brick & Mortar', 'Retailer', 'Columbia',
'LATAM', 'LATAM'),
 (90026205, 'Amazon ', 'E-Commerce', 'Retailer', 'Mexico', 'LATAM', 'LATAM'),
 (90027207, 'Amazon ', 'E-Commerce', 'Retailer', 'Brazil', 'LATAM', 'LATAM')]
```

## 0.0.1 1) Provide the list of markets in which customer "Atliq Exclusive" operates its business in the APAC region.

```
[23]: %%sql Select distinct(market) as Market From dim_customer Where customer = "Atlique Exclusive" AND region = "APAC"
```

```
mysql+pymysql://root:***@localhost:3310/
* mysql+pymysql://root:***@localhost:3310/atliq_hardware_db
8 rows affected.
```

0.0.2 2) What is the percentage of unique product increase in 2021 vs. 2020? The final output contains these fields, unique\_products\_2020 unique\_products\_2021 percentage\_chg

```
mysql+pymysql://root:***@localhost:3310/
* mysql+pymysql://root:***@localhost:3310/atliq_hardware_db
1 rows affected.
```

[29]: [(245, 334, '36.33%')]

0.0.3 3) Provide a report with all the unique product counts for each segment and sort them in descending order of product counts. The final output contains 2 fields, segment product count

```
('Storage', 27),
('Networking', 9)]
```

0.0.4 4) Follow-up: Which segment had the most increase in unique products in 2021 vs 2020? The final output contains these fields, segment product\_count\_2020 product\_count\_2021 difference

```
[36]: %%sql
      with cte as
      select
             d.segment,
             count(distinct(case when fs.fiscal_year=2020 then d.product_code end))_u
       ⇒as product_count_2020,
             count(distinct(case when fs.fiscal_year=2021 then d.product_code end))_u
       →as product_count_2021
      from dim product d
      join fact_sales_monthly fs on d.product_code=fs.product_code
      group by d.segment
      select
             segment,
             product_count_2020,
             product_count_2021,
             (product_count_2021-product_count_2020) as difference
      from cte
      order by difference desc;
```

0.0.5 5) Get the products that have the highest and lowest manufacturing costs.

The final output should contain these fields product\_code product manufacturing cost

```
[43]: [('A2118150101', 'AQ Master wired x1 Ms', Decimal('0.89')), ('A6120110206', 'AQ HOME Allin1 Gen 2', Decimal('240.54'))]
```

0.0.6 6) Generate a report which contains the top 5 customers who received an average high pre\_invoice\_discount\_pct for the fiscal year 2021 and in the Indian market. The final output contains these fields, customer\_code customer average\_discount\_percentage

```
[45]: %%sql
select f.customer_code, c.customer, avg(pre_invoice_discount_pct) as average
→From fact_pre_invoice_deductions f
join dim_customer c On f.customer_code = c.customer_code
Where fiscal_year = 2021 AND c.market='India' Group By f.customer_code, c.
→customer Order By average Desc Limit 5;

mysql+pymysql://root:***@localhost:3310/
```

```
* mysql+pymysql://root:***@localhost:3310/atliq_hardware_db
5 rows affected.
```

```
[45]: [(90002009, 'Flipkart', Decimal('0.30830000')), (90002006, 'Viveks', Decimal('0.30380000')), (90002003, 'Ezone', Decimal('0.30280000')), (90002002, 'Croma', Decimal('0.30250000')), (90002016, 'Amazon ', Decimal('0.29330000'))]
```

0.0.7 7) Get the complete report of the Gross sales amount for the customer "Atliq Exclusive" for each month. This analysis helps to get an idea of low and high-performing months and take strategic decisions. The final report contains these columns: Month Year Gross sales Amount

```
mysql+pymysql://root:***@localhost:3310/
      * mysql+pymysql://root:***@localhost:3310/atliq_hardware_db
     24 rows affected.
[46]: [(2019, 'September', '9.09m'),
       (2019, 'October', '10.38m'),
       (2019, 'November', '15.23m'),
       (2019, 'December', '9.76m'),
       (2020, 'January', '9.58m'),
       (2020, 'February', '8.08m'),
       (2020, 'March', '0.77m'),
       (2020, 'April', '0.80m'),
       (2020, 'May', '1.59m'),
       (2020, 'June', '3.43m'),
       (2020, 'July', '5.15m'),
       (2020, 'August', '5.64m'),
       (2020, 'September', '19.53m'),
       (2020, 'October', '21.02m'),
       (2020, 'November', '32.25m'),
       (2020, 'December', '20.41m'),
       (2021, 'January', '19.57m'),
       (2021, 'February', '15.99m'),
       (2021, 'March', '19.15m'),
       (2021, 'April', '11.48m'),
       (2021, 'May', '19.20m'),
       (2021, 'June', '15.46m'),
       (2021, 'July', '19.04m'),
       (2021, 'August', '11.32m')]
     0.0.8 8) In which quarter of 2020, got the maximum total sold quantity? The
            final output contains these fields sorted by the total sold quantity, Quarter
            total sold quantity
[47]: | %%sql
      SELECT
          CONCAT('Q', QUARTER(date)) AS Quarter,
          SUM(sold_quantity) AS total_sold_quantity
      FROM fact_sales_monthly
      WHERE YEAR(date) = 2020
      GROUP BY Quarter
      ORDER BY total_sold_quantity DESC;
        mysql+pymysql://root:***@localhost:3310/
      * mysql+pymysql://root:***@localhost:3310/atliq_hardware_db
     4 rows affected.
[47]: [('Q4', Decimal('17447125')),
       ('Q3', Decimal('7137551')),
```

```
('Q1', Decimal('3704398')), ('Q2', Decimal('3395899'))]
```

0.0.9 9) Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution? The final output contains these fields, channel gross\_sales\_mln percentage

```
[50]: \%%sql
      with cte as
       (
          select
                  c.channel,
                  sum(p.gross_price*f.sold_quantity)/1000000 as gross_sales_mln
          from fact_sales_monthly f
          inner join fact_gross_price p on f.product_code=p.product_code
          inner join dim_customer c on f.customer_code=c.customer_code
          where f.fiscal_year=2021
          group by channel
       ),
      cte2 as
       (
          select
                 sum(p.gross_price*f.sold_quantity)/1000000 as total
       from fact_sales_monthly f
          inner join fact_gross_price p on f.product_code=p.product_code
       inner join dim_customer c on f.customer_code=c.customer_code
          where f.fiscal_year=2021
       )
      select
             cte.channel,
             round(cte.gross_sales_mln,2) as gross_sales_mln,
             concat(round((cte.gross sales_mln/cte2.total)*100,2),'%') as percentage
      from cte
      cross join cte2
      order by percentage desc;
        mysql+pymysql://root:***@localhost:3310/
      * mysql+pymysql://root:***@localhost:3310/atliq_hardware_db
```

0.0.10 10) Get the Top 3 products in each division that have a high total\_sold\_quantity in the fiscal\_year 2021? The final output contains these fields, division product\_code product total\_sold\_quantity rank\_order

```
[51]: %%sql
      with cte as(
      Select p.division, p.product_code, p.product, sum(sold_quantity) as_
       →total_sold_quantity,
      dense_rank() OVER (partition by p.division order by sum(s.sold_quantity) Desc)_
       ⇒as rank order
      From dim_product p join fact_sales_monthly s on p.product_code = s.product_code
      where s.fiscal_year=2021
      group by p.division, p.product_code, p.product)
      Select * From cte Where rank_order <4;</pre>
        mysql+pymysql://root:***@localhost:3310/
      * mysql+pymysql://root:***@localhost:3310/atliq_hardware_db
     9 rows affected.
[51]: [('N & S', 'A6720160103', 'AQ Pen Drive 2 IN 1', Decimal('701373'), 1),
       ('N & S', 'A6818160202', 'AQ Pen Drive DRC', Decimal('688003'), 2),
       ('N & S', 'A6819160203', 'AQ Pen Drive DRC', Decimal('676245'), 3),
       ('P & A', 'A2319150302', 'AQ Gamers Ms', Decimal('428498'), 1),
       ('P & A', 'A2520150501', 'AQ Maxima Ms', Decimal('419865'), 2),
       ('P & A', 'A2520150504', 'AQ Maxima Ms', Decimal('419471'), 3),
       ('PC', 'A4218110202', 'AQ Digit', Decimal('17434'), 1),
       ('PC', 'A4319110306', 'AQ Velocity', Decimal('17280'), 2),
       ('PC', 'A4218110208', 'AQ Digit', Decimal('17275'), 3)]
 [3]: !pandoc --version
     pandoc 3.6.2
     Features: +server +lua
     Scripting engine: Lua 5.4
     User data directory: C:\Users\prian\AppData\Roaming\pandoc
     Copyright (C) 2006-2024 John MacFarlane. Web: https://pandoc.org
     This is free software; see the source for copying conditions. There is no
     warranty, not even for merchantability or fitness for a particular purpose.
 [2]: import os
      os.environ['PATH'] = r'C:\Program Files\Pandoc;' + os.environ['PATH']
 []:
```