Database Connection

**public class CustomDbConnection {**

**public static Connection getConnection() {**

**Connection conn = null;**

**try {**

**conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/dhaka1", "root",**

**"1234");**

**System.out.println("Connected database dhaka1");**

**} catch (SQLException ex) {**

**Logger.getLogger(CustomDbConnection.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**return conn;**

**}**

**public static void main(String[] args) {**

**Connection conn = CustomDbConnection.getConnection();**

**}**

**}**

**public class ProductDaoImpl implements ProductDao {**

**Connection conn = CustomDbConnection.getConnection();**

**public static void main(String[] args) {**

**ProductDaoImpl pdi = new ProductDaoImpl();**

**pdi.createTable();**

**}**

**@Override**

**public void createTable() {**

**String sql = "create table if not exists product(id int(11) auto\_increment primary key,"**

**+ " product\_name varchar(50), product\_code varchar(50), qty int(11), unite\_price double, "**

**+ "total\_price double)";**

**try {**

**PreparedStatement pstmt = conn.prepareStatement(sql);**

**pstmt.execute();**

**System.out.println("Product table created");**

**} catch (SQLException ex) {**

**Logger.getLogger(ProductDaoImpl.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**}**

**@Override**

**public void save(Product p) {**

**String sql = "insert into product(product\_name,product\_code,qty,unite\_price,total\_price) values(?,?,?,?,?)";**

**try {**

**PreparedStatement pstmt = conn.prepareStatement(sql);**

**pstmt.setString(1, p.getProductName());**

**pstmt.setString(2, p.getProcutCode());**

**pstmt.setInt(3, p.getQty());**

**pstmt.setDouble(4, p.getUnitePrice());**

**pstmt.setDouble(5, p.getTotalPrice());**

**pstmt.executeUpdate();**

**System.out.println("insert success");**

**} catch (SQLException ex) {**

**Logger.getLogger(ProductDaoImpl.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**}**

**@Override**

**public void update(Product p) {**

**throw new UnsupportedOperationException("Not supported yet."); //To change body of generated methods, choose Tools | Templates.**

**}**

**@Override**

**public void delete(Product p) {**

**throw new UnsupportedOperationException("Not supported yet."); //To change body of generated methods, choose Tools | Templates.**

**}**

**@Override**

**public Product getProductById(int id) {**

**throw new UnsupportedOperationException("Not supported yet."); //To change body of generated methods, choose Tools | Templates.**

**}**

**@Override**

**public Product getProductByProductCode(String code) {**

**Product product = null;**

**String sql = "select \* from product where product\_code=?";**

**try {**

**PreparedStatement pstmt = conn.prepareStatement(sql);**

**pstmt.setString(1, code);**

**ResultSet rs = pstmt.executeQuery();**

**while (rs.next()) {**

**product = new Product(rs.getInt(1), rs.getString(2), rs.getString(3), rs.getInt(4),**

**rs.getDouble(5), rs.getDouble(6));**

**}**

**} catch (SQLException ex) {**

**Logger.getLogger(ProductDaoImpl.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**return product;**

**}**

**@Override**

**public List<Product> getList() {**

**List<Product> list = new ArrayList();**

**String sql = "select \* from product";**

**try {**

**PreparedStatement pstmt = conn.prepareStatement(sql);**

**ResultSet rs = pstmt.executeQuery();**

**while (rs.next()) {**

**Product product = new Product(rs.getInt(1), rs.getString(2), rs.getString(3), rs.getInt(4),**

**rs.getDouble(5), rs.getDouble(6));**

**list.add(product);**

**}**

**}catch (SQLException ex) {**

**Logger.getLogger(ProductDaoImpl.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**return list;**

**}**

**}**

**public class ProdcutSalesDaoImpl implements ProductSalesDao {**

**Connection conn = CustomDbConnection.getConnection();**

**public static void main(String[] args) {**

**ProductSalesDaoImpl pdi = new ProductSalesDaoImpl();**

**pdi.createTable();**

**@Override**

**public void createTable() {**

**String sql = "create table if not exists sales(id int(11) auto\_increment primary key,"**

**+ " product\_name varchar(50), product\_code varchar(50), qty int(11), unite\_price double, "**

**+ "total\_price double, product\_id int(11), FOREIGN KEY (product\_id) REFERENCES product(id))";**

**try {**

**PreparedStatement pstmt = conn.prepareStatement(sql);**

**pstmt.execute();**

**System.out.println("Sales table created");**

**} catch (SQLException ex) {**

**Logger.getLogger(ProdcutSalesDaoImpl.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**}**

**@Override**

**public void save(ProductSales ps) {**

**String sql = "insert into sales(product\_name,product\_code,qty,unite\_price,total\_price,product\_id) "**

**+ "values(?,?,?,?,?,?)";**

**try {**

**PreparedStatement pstmt = conn.prepareStatement(sql);**

**pstmt.setString(1, ps.getProductName());**

**pstmt.setString(2, ps.getProcutCode());**

**pstmt.setInt(3, ps.getQty());**

**pstmt.setDouble(4, ps.getUnitePrice());**

**pstmt.setDouble(5, ps.getTotalPrice());**

**pstmt.setInt(6, ps.getProduct().getId());**

**pstmt.executeUpdate();**

**System.out.println("insert success");**

**} catch (SQLException ex) {**

**Logger.getLogger(ProdcutSalesDaoImpl.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**}**

**@Override**

**public void update(ProductSales ps) {**

**throw new UnsupportedOperationException("Not supported yet."); //To change body of generated methods, choose Tools | Templates.**

**}**

**@Override**

**public void delete(ProductSales ps) {**

**throw new UnsupportedOperationException("Not supported yet."); //To change body of generated methods, choose Tools | Templates.**

**}**

**@Override**

**public ProductSales getProductSalesById(int id) {**

**throw new UnsupportedOperationException("Not supported yet."); //To change body of generated methods, choose Tools | Templates.**

**}**

**@Override**

**public ProductSales getProductSalesByProductCode(String code) {**

**ProductSales productSales = null;**

**String sql = "select \* from sales where product\_code=?";**

**try {**

**PreparedStatement pstmt = conn.prepareStatement(sql);**

**pstmt.setString(1, code);**

**ResultSet rs = pstmt.executeQuery();**

**while (rs.next()) {**

**productSales = new ProductSales(rs.getInt(1), rs.getString(2), rs.getString(3), rs.getInt(4),**

**rs.getDouble(5), rs.getDouble(6), new Product(rs.getInt(7)));**

**}**

**} catch (SQLException ex) {**

**Logger.getLogger(ProdcutSalesDaoImpl.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**return productSales;**

**}**

**@Override**

**public List<ProductSales> getList() {**

**List<ProductSales> list = new ArrayList();**

**String sql = "select \* from product";**

**try {**

**PreparedStatement pstmt = conn.prepareStatement(sql);**

**ResultSet rs = pstmt.executeQuery();**

**while (rs.next()) {**

**ProductSales productSales = new ProductSales(rs.getInt(1), rs.getString(2), rs.getString(3), rs.getInt(4),**

**rs.getDouble(5), rs.getDouble(6), new Product(rs.getInt(7)));**

**list.add(productSales);**

**}**

**} catch (SQLException ex) {**

**Logger.getLogger(ProdcutSalesDaoImpl.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**return list;**

**}**

**}**

**public class SummaryDaoImpl implements SummaryDao {**

**Connection conn = CustomDbConnection.getConnection();**

**public static void main(String[] args) {**

**SummaryDaoImpl pdi = new SummaryDaoImpl();**

**pdi.createTable();**

**}**

**@Override**

**public void createTable() {**

**String sql = "create table if not exists summary(id int(11) auto\_increment primary key,"**

**+ " product\_name varchar(50), product\_code varchar(50), total\_qty int(11), sold\_qty int(11), "**

**+ "available\_qty int(11), product\_id int(11), FOREIGN KEY (product\_id) REFERENCES product(id))";**

**try {**

**PreparedStatement pstmt = conn.prepareStatement(sql);**

**pstmt.execute();**

**System.out.println("Summary table created");**

**} catch (SQLException ex) {**

**Logger.getLogger(SummaryDaoImpl.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**}**

**@Override**

**public void save(Summary s) {**

**String sql = "insert into summary(product\_name,product\_code,total\_qty,sold\_qty,available\_qty,product\_id) "**

**+ "values(?,?,?,?,?,?)";**

**try {**

**PreparedStatement pstmt = conn.prepareStatement(sql);**

**pstmt.setString(1, s.getProductName());**

**pstmt.setString(2, s.getProcutCode());**

**pstmt.setInt(3, s.getTotalQty());**

**pstmt.setInt(4, s.getSoldQty());**

**pstmt.setInt(5, s.getAvailableQty());**

**pstmt.setInt(6, s.getProduct().getId());**

**pstmt.executeUpdate();**

**System.out.println("insert success");**

**} catch (SQLException ex) {**

**Logger.getLogger(SummaryDaoImpl.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**}**

**@Override**

**public void update(Summary s) {**

**String sql = "update summary set(total\_qty=?,sold\_qty=?,available\_qty=? where product\_code=?)";**

**try {**

**PreparedStatement pstmt = conn.prepareStatement(sql);**

**pstmt.setInt(1, s.getTotalQty());**

**pstmt.setInt(2, s.getSoldQty());**

**pstmt.setInt(3, s.getAvailableQty());**

**pstmt.setString(4, s.getProcutCode());**

**} catch (SQLException ex) {**

**Logger.getLogger(SummaryDaoImpl.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**}**

**@Override**

**public void delete(Summary s) {**

**throw new UnsupportedOperationException("Not supported yet."); //To change body of generated methods, choose Tools | Templates.**

**}**

**@Override**

**public Summary getSummaryById(int id) {**

**throw new UnsupportedOperationException("Not supported yet."); //To change body of generated methods, choose Tools | Templates.**

**}**

**@Override**

**public Summary getSummaryByProductCode(String code) {**

**Summary summary = null;**

**String sql = "select \* from summary where product\_code=?";**

**try {**

**PreparedStatement pstmt = conn.prepareStatement(sql);**

**pstmt.setString(1, code);**

**ResultSet rs = pstmt.executeQuery();**

**while (rs.next()) {**

**summary = new Summary(rs.getInt(1), rs.getString(2), rs.getString(3), rs.getInt(4),**

**rs.getInt(5), rs.getInt(6), new Product(rs.getInt(7)));**

**}**

**} catch (SQLException ex) {**

**Logger.getLogger(SummaryDaoImpl.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**return summary;**

**}**

**@Override**

**public List<Summary> getList() {**

**List<Summary> list = new ArrayList();**

**String sql = "select \* from summary";**

**try {**

**PreparedStatement pstmt = conn.prepareStatement(sql);**

**ResultSet rs = pstmt.executeQuery();**

**while (rs.next()) {**

**Summary summary = new Summary(rs.getInt(1), rs.getString(2), rs.getString(3), rs.getInt(4),**

**rs.getInt(5), rs.getInt(6), new Product(rs.getInt(7)));**

**list.add(summary);**

**}**

**} catch (SQLException ex) {**

**Logger.getLogger(SummaryDaoImpl.class.getName()).log(Level.SEVERE, null, ex);**

**}**

**return list;**

**}**

**}**

**Ppppppppppppppp**

**public void displayProductListIntoTable() {**

**clearTable();**

**ProductDao productDao = new ProductDaoImpl();**

**List<Product> list = productDao.getList();**

**DefaultTableModel model = (DefaultTableModel) tblDisplay.getModel();**

**Object[] cols = new Object[6];**

**for (int i = 0; i < list.size(); i++) {**

**cols[0] = list.get(i).getId();**

**cols[1] = list.get(i).getProductName();**

**cols[2] = list.get(i).getProcutCode();**

**cols[3] = list.get(i).getQty();**

**cols[4] = list.get(i).getUnitePrice();**

**cols[5] = list.get(i).getTotalPrice();**

**model.addRow(cols);**

**}**

**}**

**public void clearTable() {**

**DefaultTableModel model = (DefaultTableModel) tblDisplay.getModel();**

**model.setRowCount(0);**

**}**

**////////////////**

**purchase view**

**// TODO add your handling code here:**

**ProductDao productDao = new ProductDaoImpl();**

**Product product = new Product(txtPName.getText().trim(), txtPCode.getText().trim(),**

**Integer.parseInt(txtQty.getText().trim()), Double.parseDouble(txtUPrice.getText().trim()),**

**Double.parseDouble(txtTPrice.getText().trim()));**

**productDao.save(product);**

**SummaryDao summaryDao = new SummaryDaoImpl();**

**try {**

**Summary summary = summaryDao.getSummaryByProductCode(txtPCode.getText().trim());**

**if (summary.getProcutCode()!= null) {**

**int totalQty = summary.getTotalQty() + Integer.parseInt(txtQty.getText().trim());**

**int availableqty = summary.getAvailableQty() + Integer.parseInt(txtQty.getText().trim());**

**Summary summaryUp = new Summary(summary.getProcutCode(), totalQty, summary.getSoldQty(),**

**availableqty);**

**summaryDao.update(summaryUp);**

**JOptionPane.showMessageDialog(null, "Purchase Again success");**

**} else {**

**Product product1 = productDao.getProductByProductCode(product.getProcutCode());**

**Summary summary2 = new Summary(txtPName.getText().trim(), txtPCode.getText().trim(),**

**Integer.parseInt(txtQty.getText().trim()), 0, Integer.parseInt(txtQty.getText().trim()), product1);**

**summaryDao.save(summary2);**

**JOptionPane.showMessageDialog(null, "Purchase success");**

**}**

**} catch (Exception e) {**

**Product product1 = productDao.getProductByProductCode(product.getProcutCode());**

**Summary summary = new Summary(txtPName.getText().trim(), txtPCode.getText().trim(),**

**Integer.parseInt(txtQty.getText().trim()), 0, Integer.parseInt(txtQty.getText().trim()),**

**product1);**

**summaryDao.save(summary);**

**JOptionPane.showMessageDialog(null, "Purchase success");**

**}**

**displayProductListIntoTable();**

**=======================**

**Sales View**

**public void displayProductSalesListIntoTable() {**

**clearTable();**

**SummaryDao summaryDao = new SummaryDaoImpl();**

**ProductDao productDao = new ProductDaoImpl();**

**List<Summary> list = summaryDao.getList();**

**DefaultTableModel model = (DefaultTableModel) tblDisplay.getModel();**

**Object[] cols = new Object[7];**

**for (int i = 0; i < list.size(); i++) {**

**cols[0] = list.get(i).getId();**

**cols[1] = list.get(i).getProductName();**

**cols[2] = list.get(i).getProcutCode();**

**cols[3] = list.get(i).getTotalQty();**

**cols[4] = list.get(i).getSoldQty();**

**cols[5] = list.get(i).getAvailableQty();**

**cols[5] = list.get(i).getAvailableQty();**

**Product product = productDao.getProductByProductCode(list.get(i).getProcutCode());**

**model.addRow(cols);**

**}**

**}**

**public void clearTable() {**

**DefaultTableModel model = (DefaultTableModel) tblDisplay.getModel();**

**model.setRowCount(0);**

**>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>**

**// TODO add your handling code here:**

**ProductDao pDao = new ProductDaoImpl();**

**ProductSalesDao salesDao = new ProdcutSalesDaoImpl();**

**Product product = pDao.getProductByProductCode(txtPCode.getText().trim());**

**ProductSales sales = new ProductSales(txtPName.getText().trim(), txtPCode.getText().trim(),**

**Integer.parseInt(txtSoldQty.getText().trim()), Double.parseDouble(txtUPrice.getText().trim()),**

**Double.parseDouble(txtTPrice.getText().trim()), product);**

**salesDao.save(sales);**

**SummaryDao summaryDao = new SummaryDaoImpl();**

**Summary summary = summaryDao.getSummaryByProductCode(sales.getProcutCode());**

**if (summary.getProcutCode() != null) {**

**int totalQty = summary.getTotalQty();**

**int soldQty = summary.getSoldQty() + Integer.parseInt(txtSoldQty.getText().trim());**

**int availableqty = summary.getAvailableQty() - Integer.parseInt(txtSoldQty.getText().trim());**

**Summary summaryUp = new Summary(summary.getProcutCode(), totalQty, soldQty, availableqty);**

**summaryDao.update(summaryUp);**

**JOptionPane.showMessageDialog(null, "Sales success");**

**displayProductSalesListIntoTable();**

**}**

**}**

**private void tblDisplayMouseClicked(java.awt.event.MouseEvent evt) {**

**// TODO add your handling code here:**

**int i = tblDisplay.getSelectedRow();**

**DefaultTableModel model = (DefaultTableModel) tblDisplay.getModel();**

**txtPName.setText(model.getValueAt(i, 1).toString());**

**txtPCode.setText(model.getValueAt(i, 2).toString());**

**lblAvailQty.setText(model.getValueAt(i, 5).toString());**

**}**

**<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<**

**Summary view**

**public void displayListIntoTable() {**

**clearTable();**

**SummaryDao summaryDao = new SummaryDaoImpl();**

**ProductDao productDao = new ProductDaoImpl();**

**List<Summary> list = summaryDao.getList();**

**DefaultTableModel model = (DefaultTableModel) tblDisplay.getModel();**

**Object[] cols = new Object[7];**

**for (int i = 0; i < list.size(); i++) {**

**cols[0] = list.get(i).getId();**

**cols[1] = list.get(i).getProductName();**

**cols[2] = list.get(i).getProcutCode();**

**cols[3] = list.get(i).getTotalQty();**

**cols[4] = list.get(i).getSoldQty();**

**cols[5] = list.get(i).getAvailableQty();**

**cols[6] = list.get(i).getAvailableQty();**

**Product product = productDao.getProductByProductCode(list.get(i).getProcutCode());**

**model.addRow(cols);**

**}**