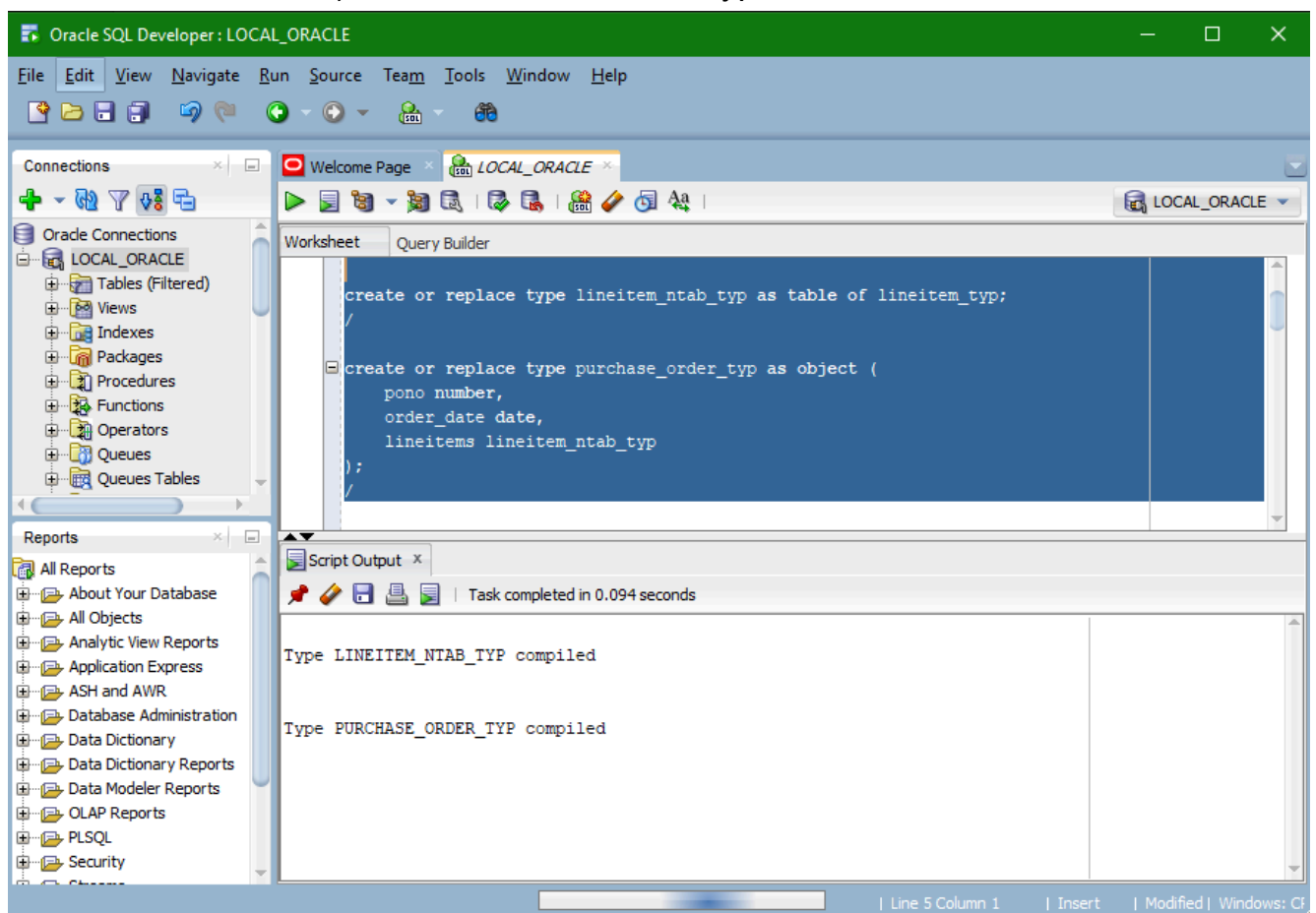**Name**:   Shaheer Shamsi
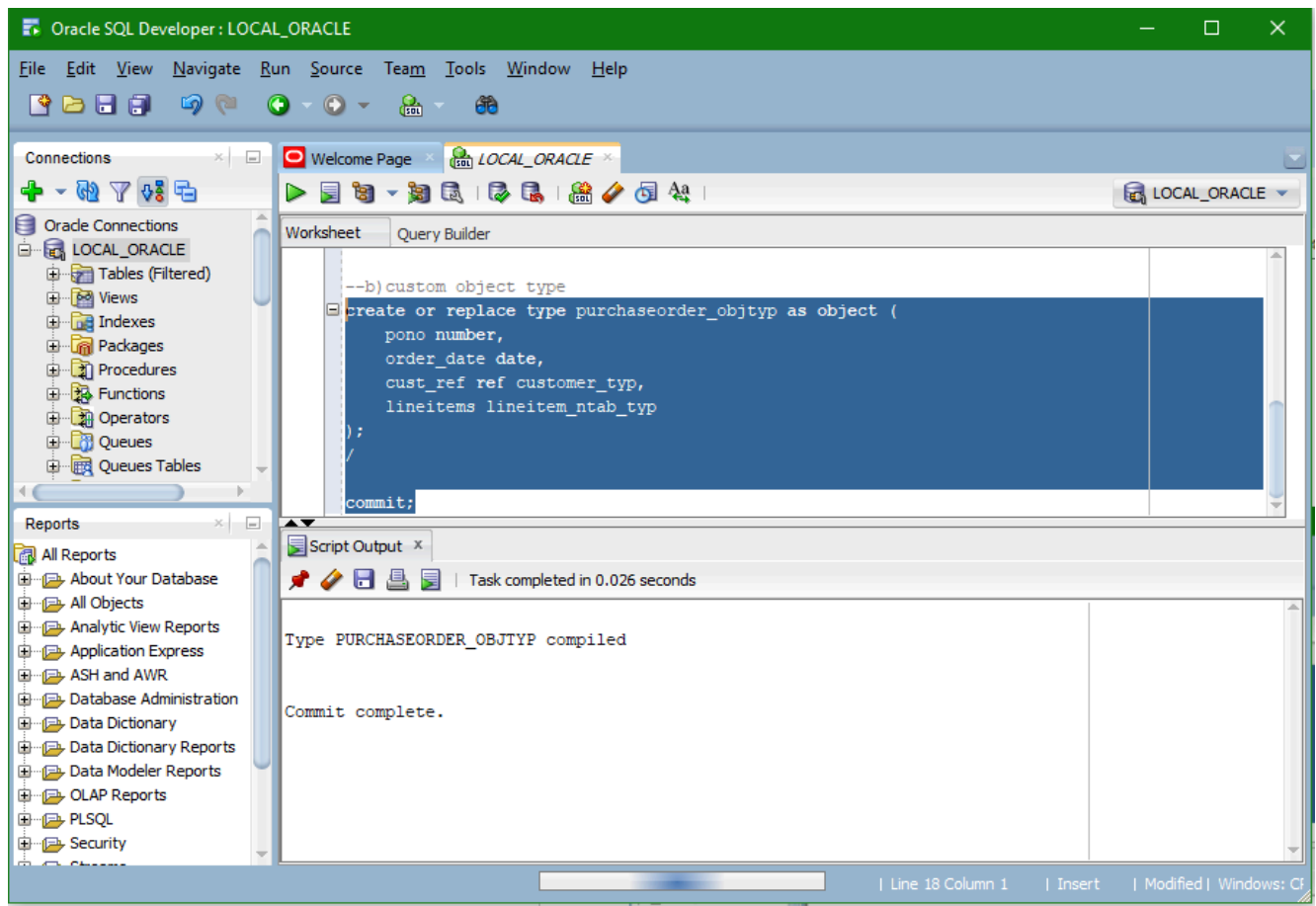**Username:**   shaheer-shamsi

3dotsss advdb Task 05
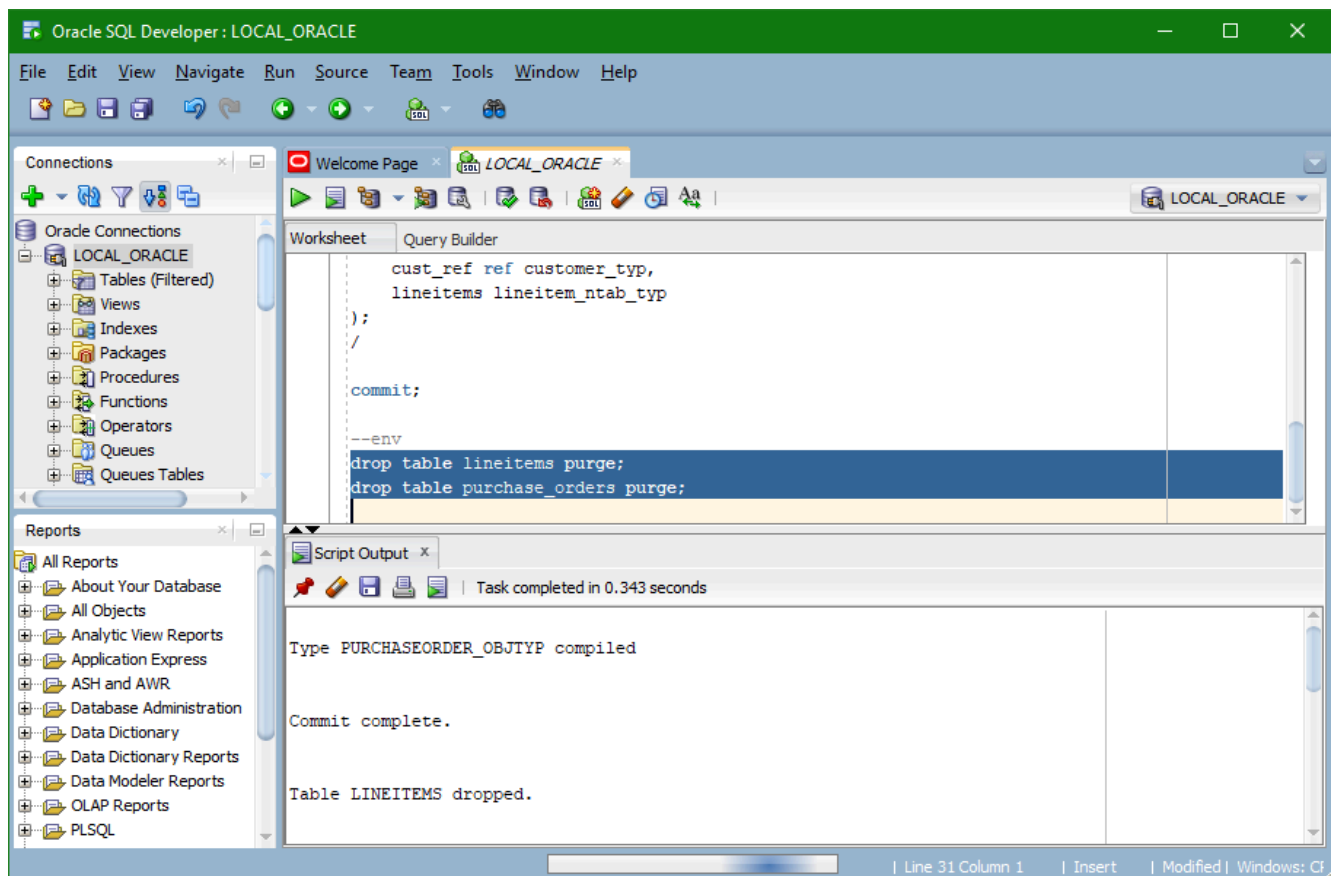# Modeling Purchase Orders with Nested Line Items

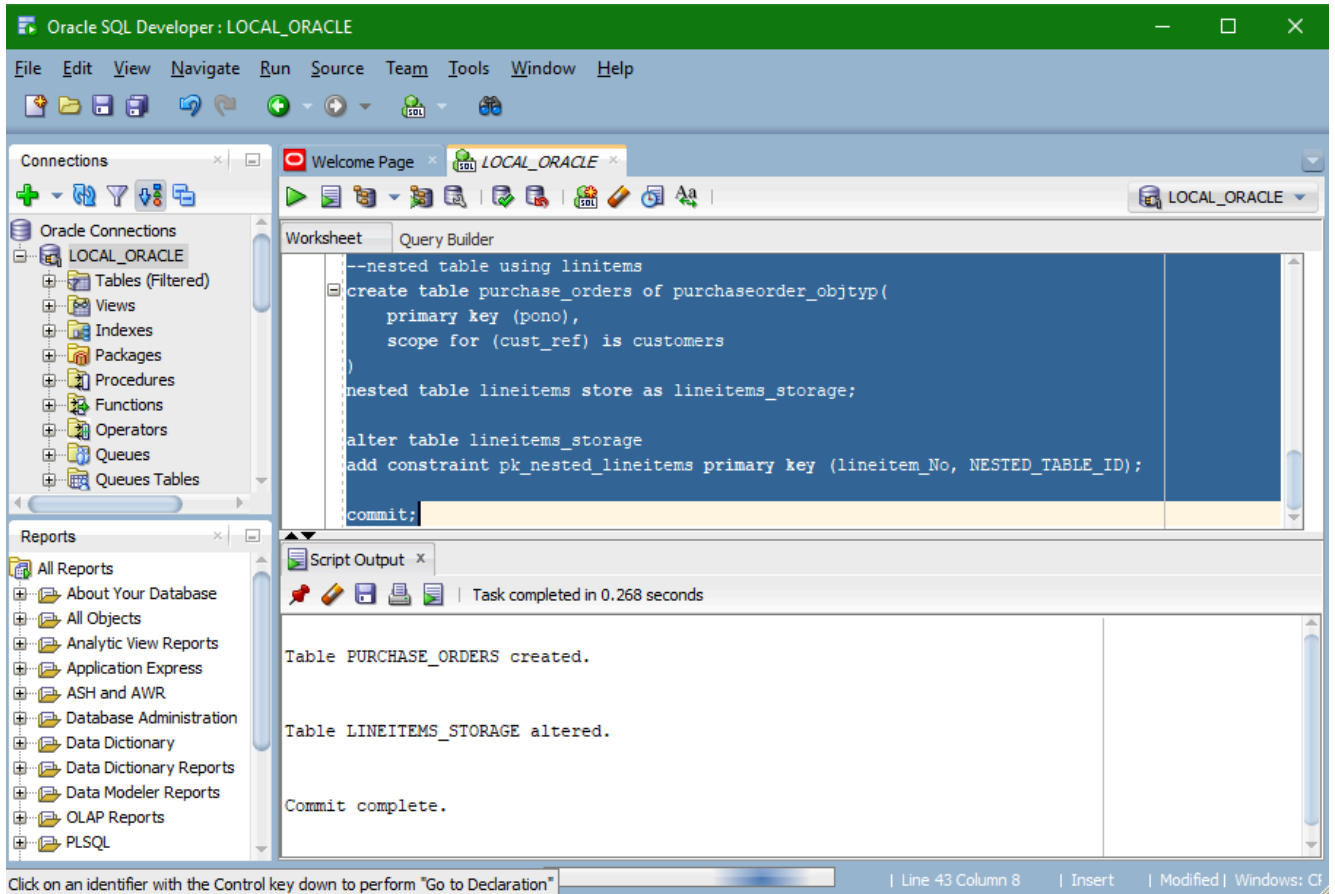## a) Define a Nested Table Type for Line Items

## b) Create a Custom Object Type for Purchase Orders


```sql
--b)custom object type
create or replace type purchaseorder_objtyp as object (
    pono number,
    order_date date,
    cust_ref ref customer_typ,
    lineitems lineitem_ntab_typ
);
/

commit;
```

Script Output:
```
Type PURCHASEORDER_OBJTYP compiled

Commit complete.
```

c) Prepare the Environment: Keep and Drop Tables as Needed


```sql
    cust_ref ref customer_typ,
    lineitems lineitem_ntab_typ
);
/

commit;

--env
drop table lineitems purge;
drop table purchase_orders purge;
```

Script Output:
```
Type PURCHASEORDER_OBJTYP compiled

Commit complete.

Table LINEITEMS dropped.
```

d) Create the Purchase Orders Table from the Custom Type


```sql
--nested table using linitems
create table purchase_orders of purchaseorder_objtyp(
    primary key (pono),
    scope for (cust_ref) is customers
)
nested table lineitems store as lineitems_storage;

alter table lineitems_storage
add constraint pk_nested_lineitems primary key (lineitem_No, NESTED_TABLE_ID);

commit;
```

Script Output

Task completed in 0.268 seconds

```
Table PURCHASE_ORDERS created.


Table LINEITEMS_STORAGE altered.


Commit complete.
```

e) Insert 3 purchase orders with at least 3 line item each in the Purchase Orders Table
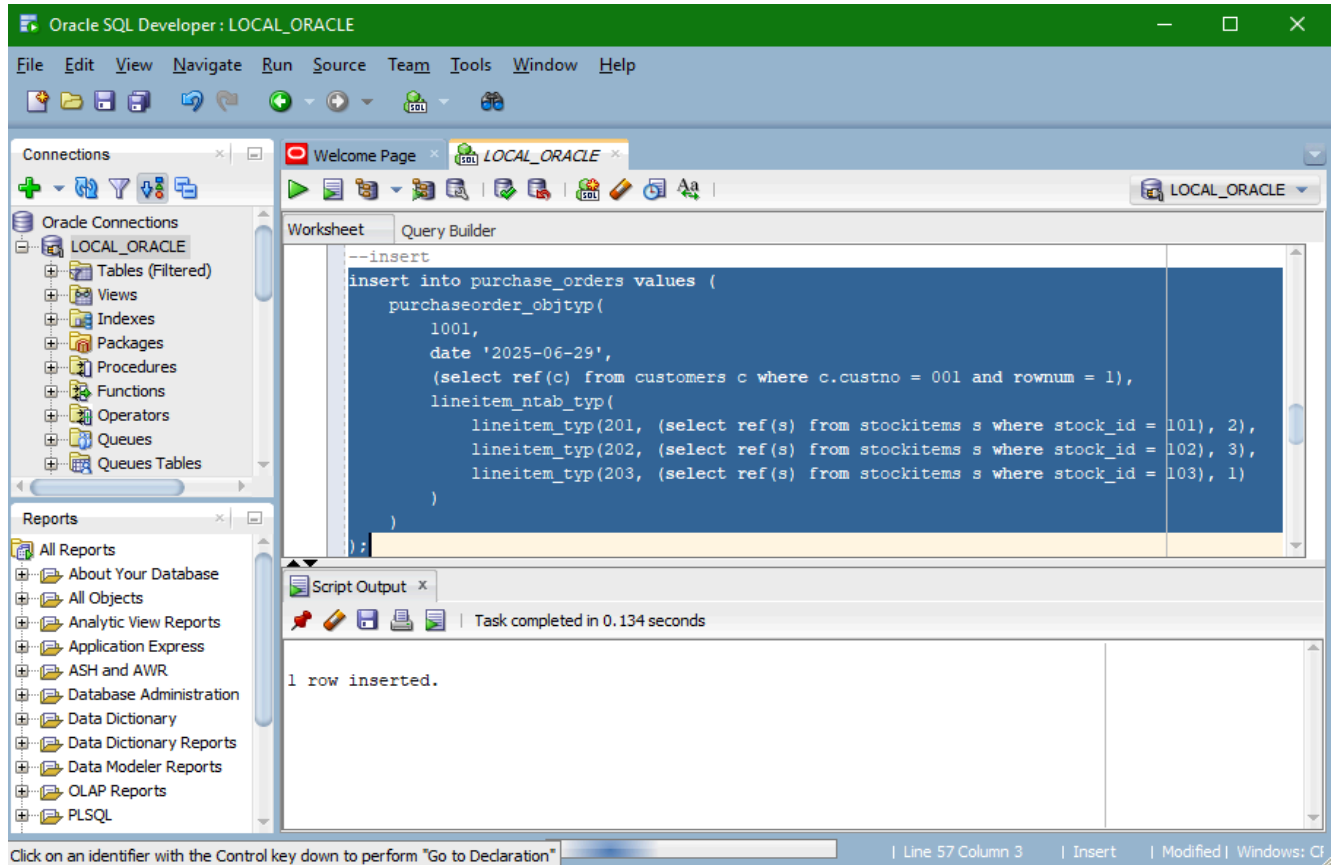
Insert a purchase order with a blank nested table.
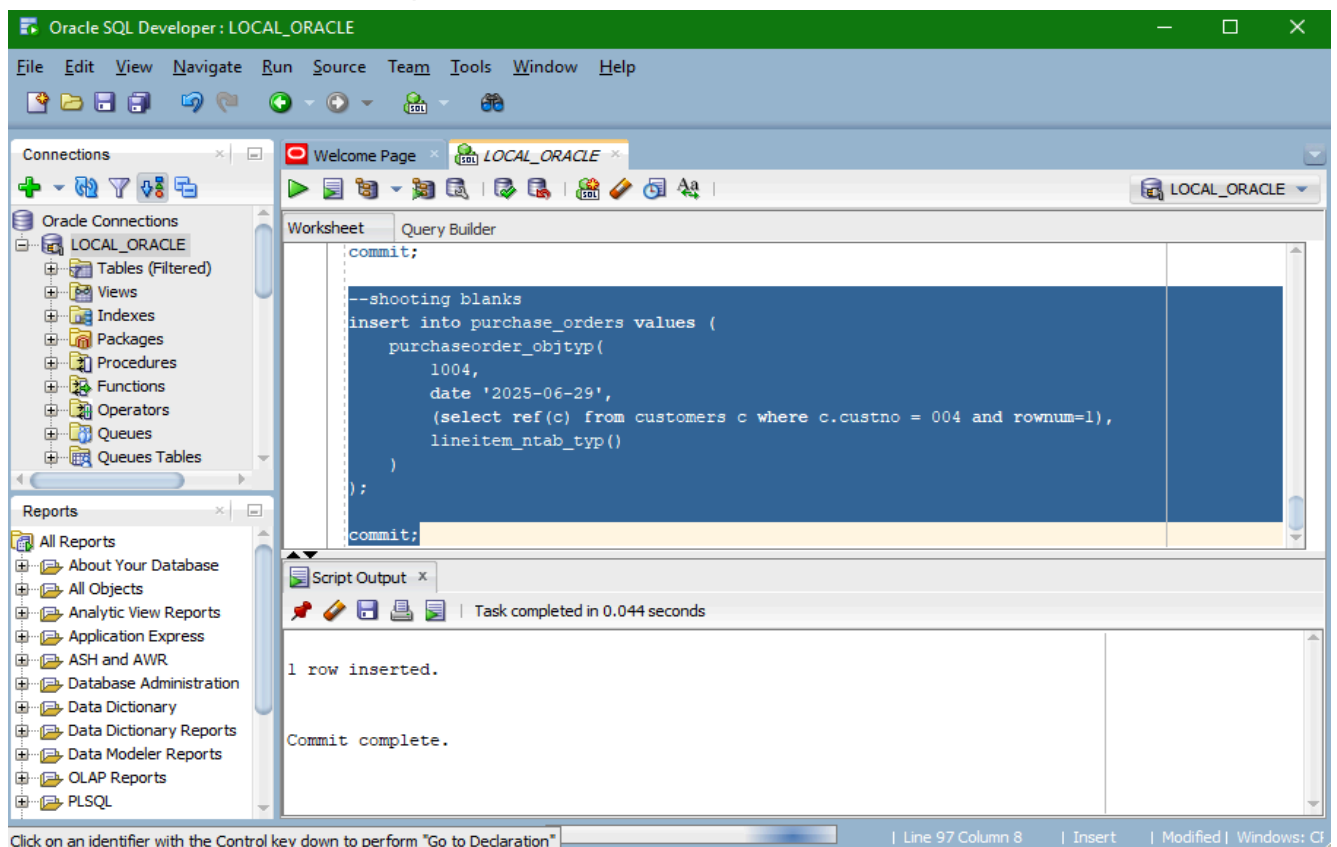
Insert individual line items