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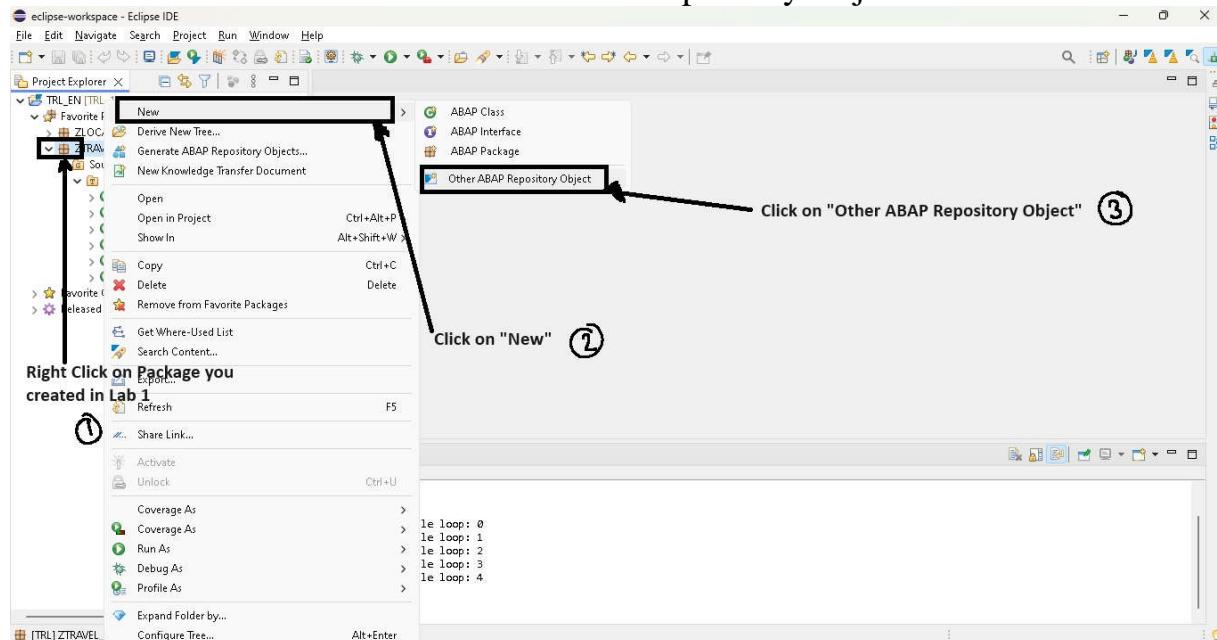
LAB MANUAL 7

Creating database Table and Data insertion

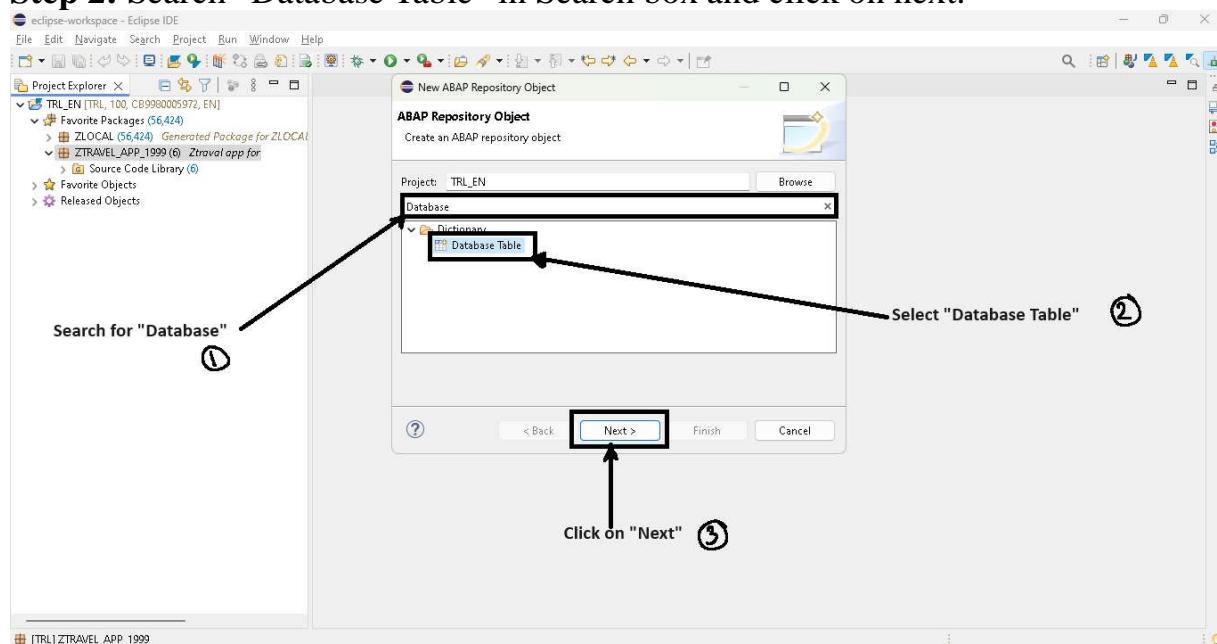
Disclaimer: The content is curated from online/offline resources and used for educational purpose only

Stage 1: Database Table Creation

Step 1: Create the new class, Right click on the package you created in Lab1 → Click on “New” → Click on “Other ABAP Repository Object”.

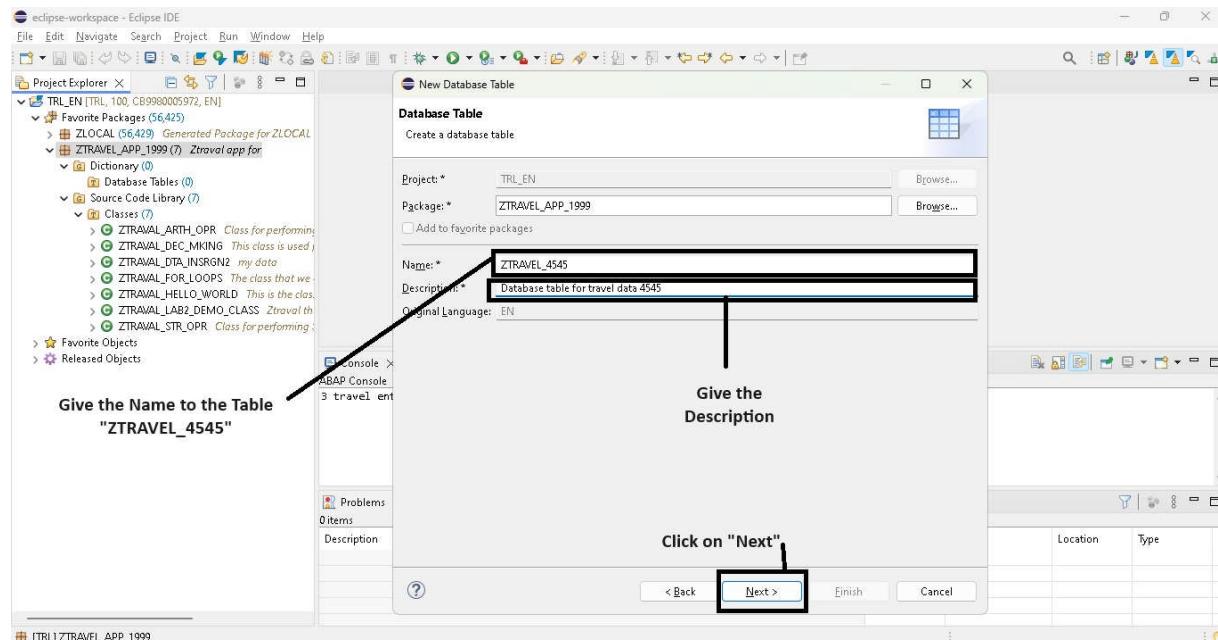


Step 2: Search “Database Table” in Search box and click on next.

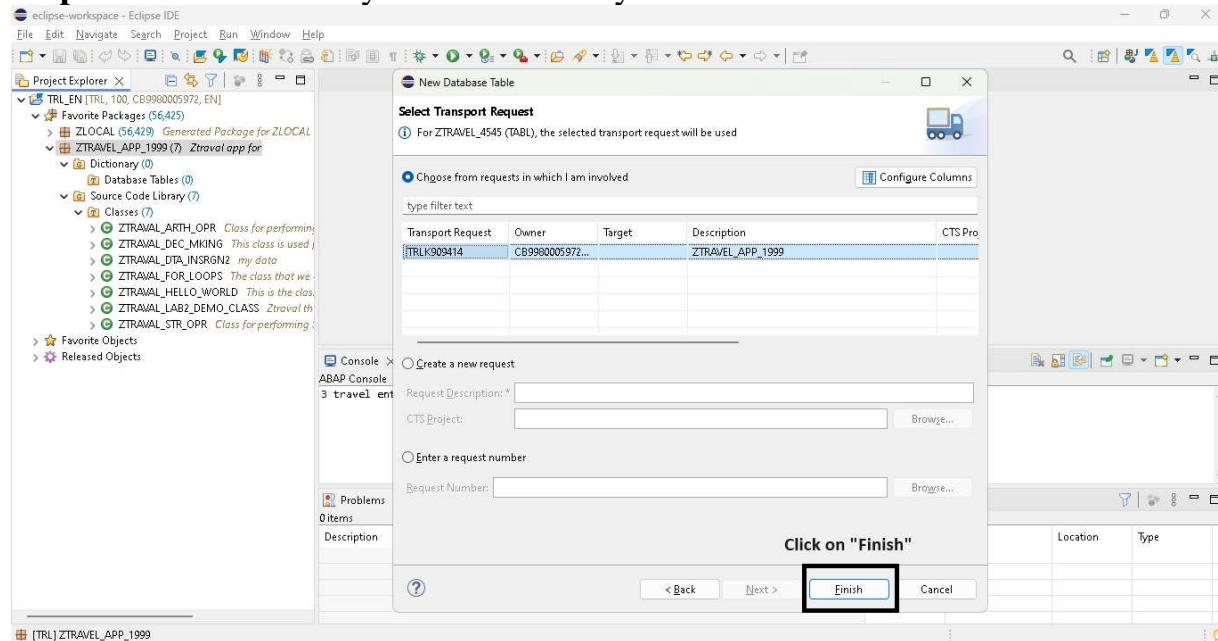


Step 3: Create the new database table with following Description and click on next

- *Table Name: ZTRAVEL_4545*
- *Table Description: Database table for travel data 4545*



Step 4: Click on Finish your table Is ready for creation



Step 5: Copy the following code and put in the existing window

Note: Check the table, it must as per the table name you created, we created "ZTRAVEL_4545"

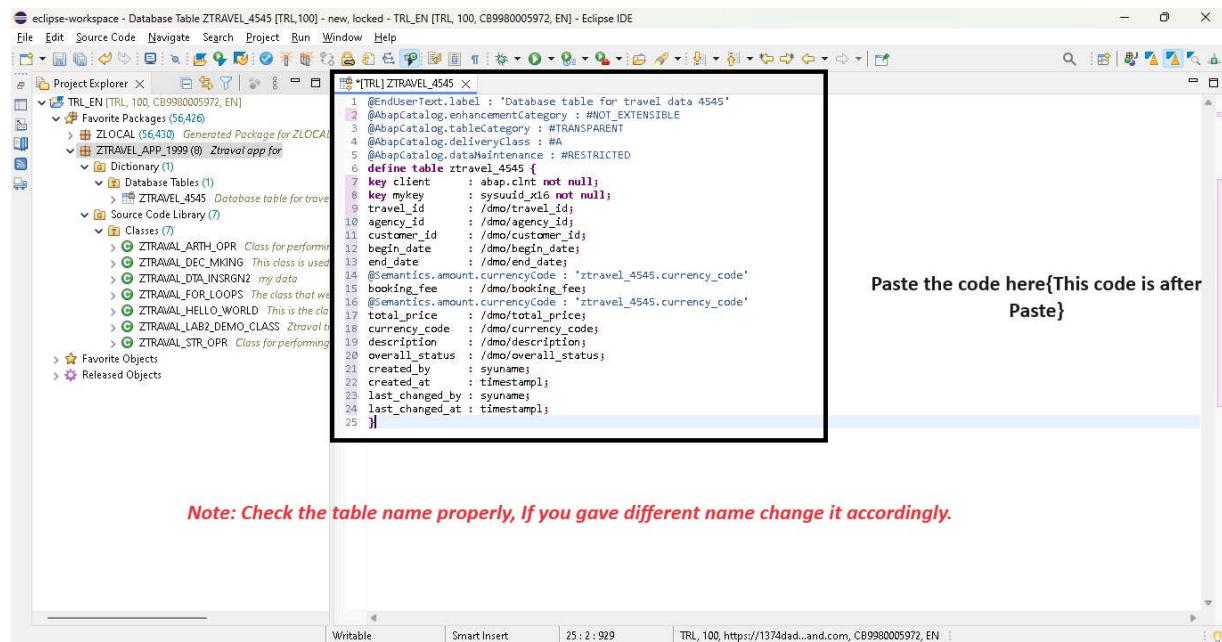
```

@EndUserText.label : 'Database table for travel data 4545'
@AbapCatalog.enhancement.category : #NOT_EXTENSIBLE
@AbapCatalog.tableCategory : #TRANSPARENT
@AbapCatalog.deliveryClass : #A
@AbapCatalog.dataMaintenance : #RESTRICTED
define table ztravel_4545 {

    key client      : abap.clnt not null;
    key mykey       : sysuuid_x16 not null;
    travel_id       : /dmo/travel_id;
    agency_id       : /dmo/agency_id;
    customer_id     : /dmo/customer_id;
    begin_date      : /dmo/begin_date;
    end_date        : /dmo/end_date;
    @Semantics.amount.currencyCode : 'ztravel_4545.currency_code'
    booking_fee     : /dmo/booking_fee;
    @Semantics.amount.currencyCode : 'ztravel_4545.currency_code'
    total_price     : /dmo/total_price;
    currency_code   : /dmo/currency_code;
    description     : /dmo/description;
    overall_status  : /dmo/overall_status;
    created_by      : syuname;
    created_at      : timestamppl;
    last_changed_by : syuname;
    last_changed_at : timestamppl;

}

```

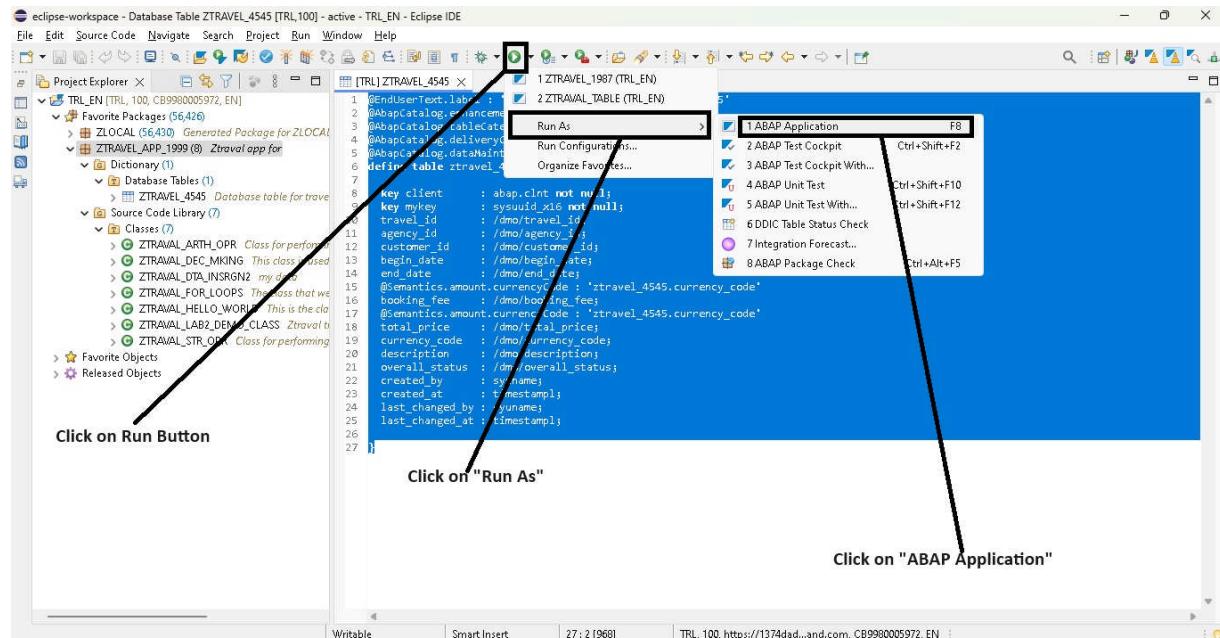


Note: Check the table name properly, If you gave different name change it accordingly.

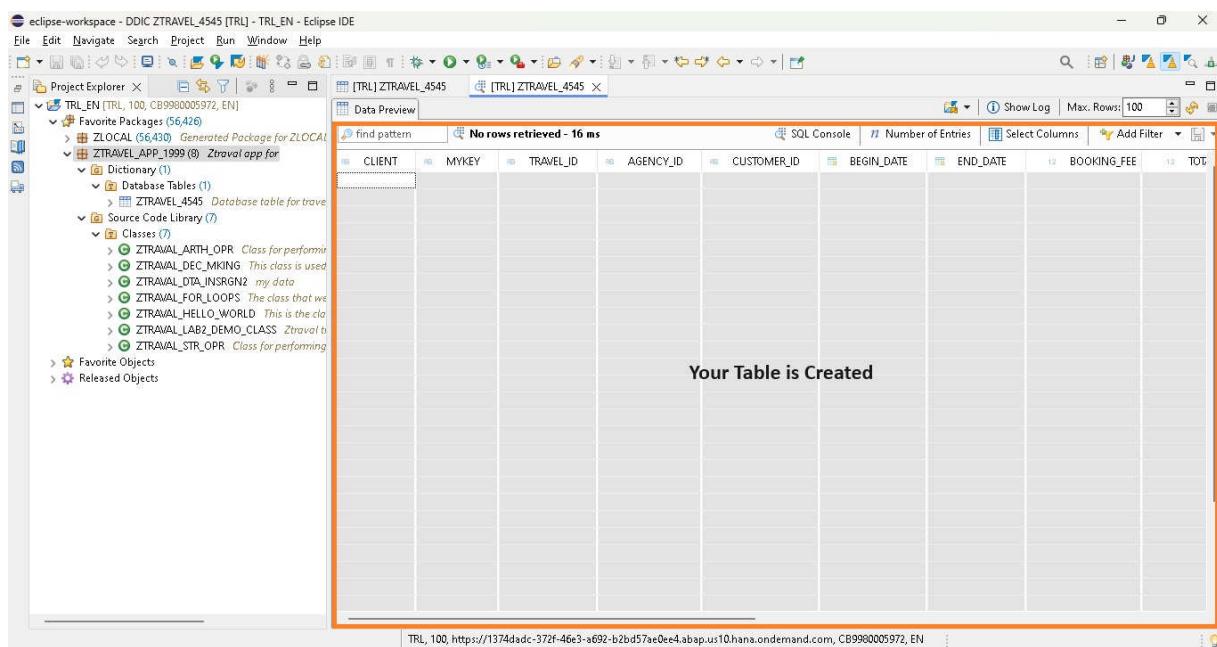
Step 6: Follow the following instructions and Run the code

- CTRL+A → Select whole code
- CTRL+S → Save that code
- CTRL+F2 → To check the Syntax of code
- CTRL+F3 → To activate the script

Then click on the run button → Click on “Run As” → Click on “ABAP Application “<As per the following Screen>

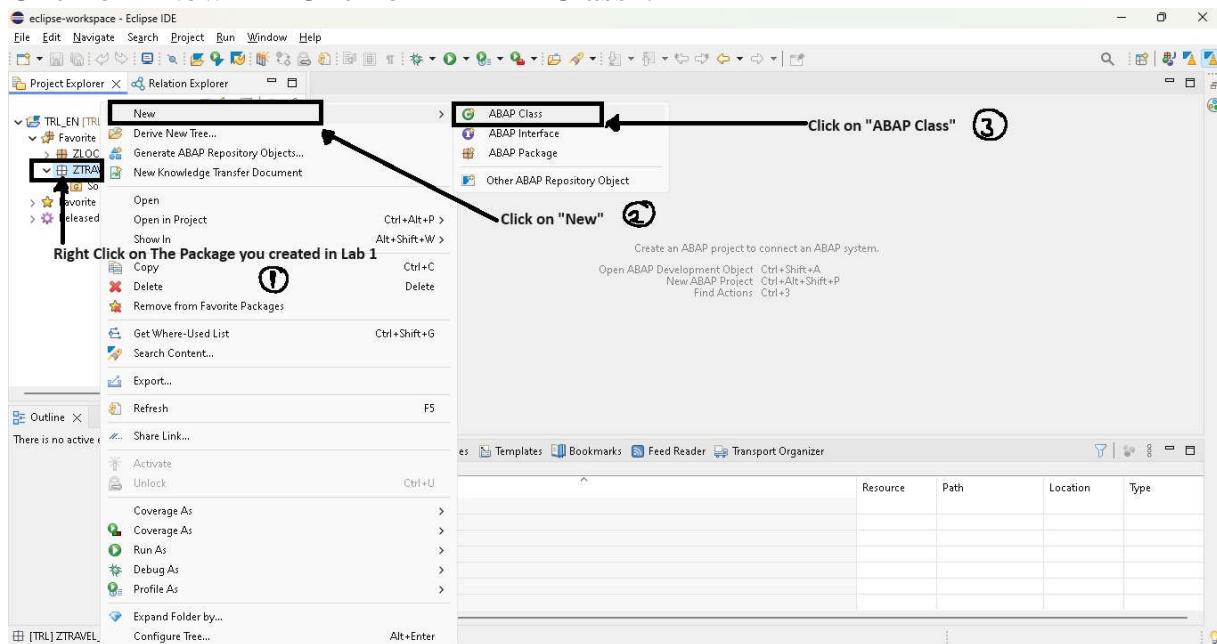


Step 7: Following window is going to appear in front of you, means your table is created.



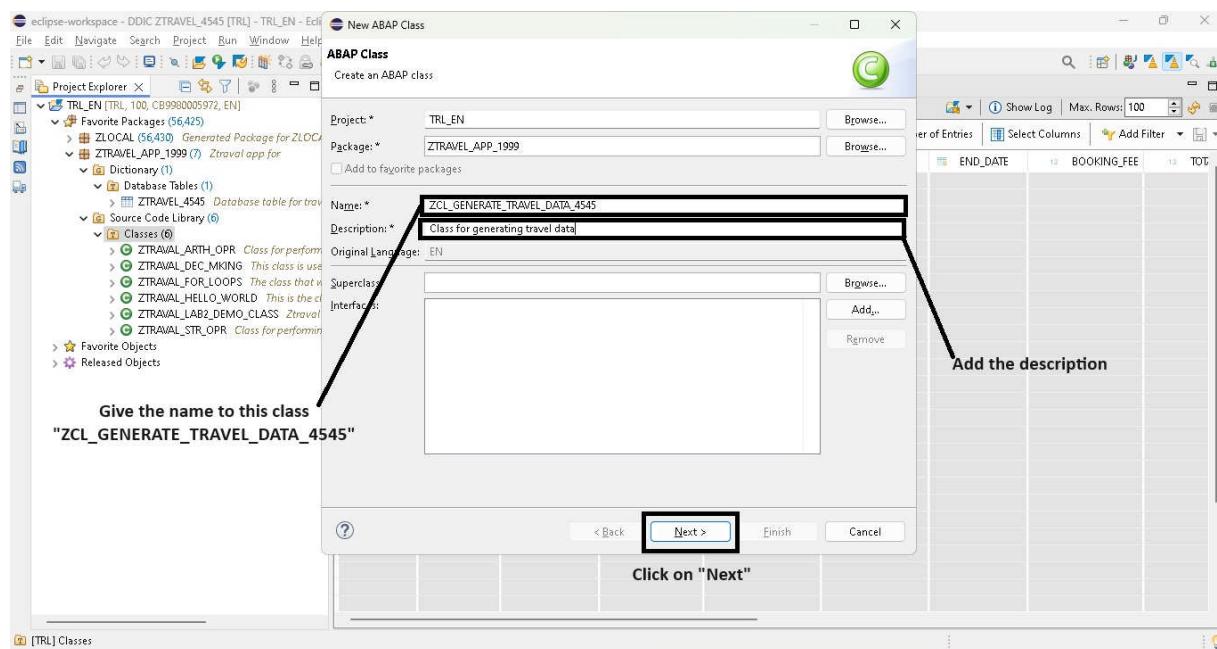
Stage 2 Insert the Data

Step 1: Create the new class, Right click on the package you created in Lab1 → Click on “New” → Click on “ABAP Class”.

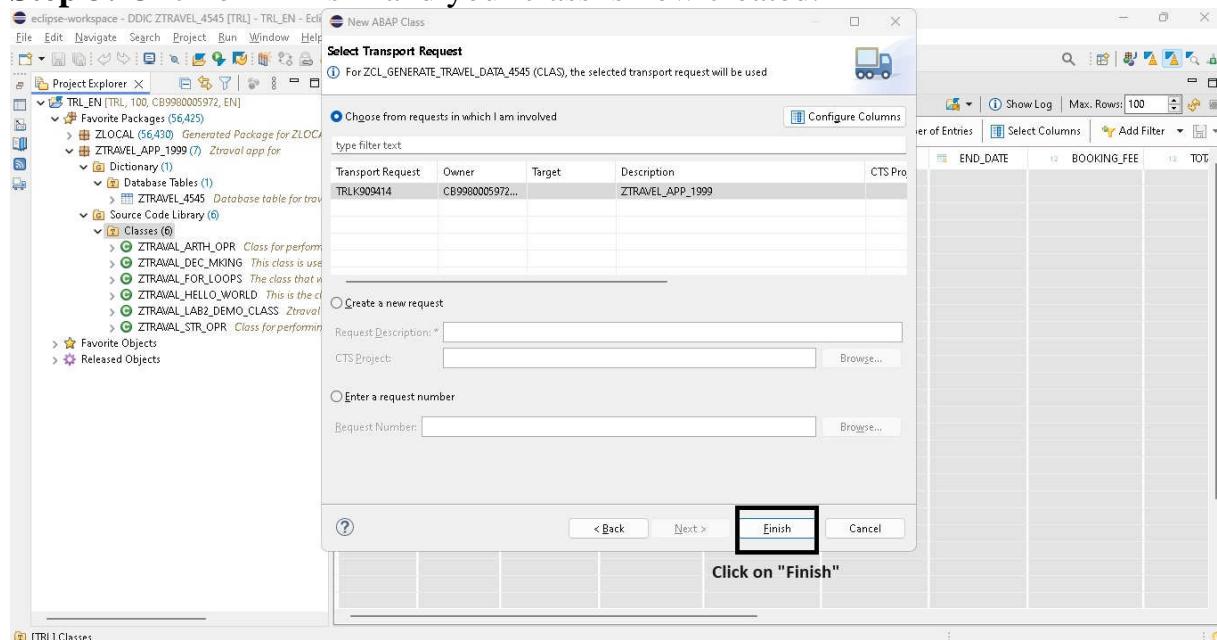


Step 2: Create the new class with following Description and click on next

- *Class Name: ZCL_GENERATE_TRAVEL_DATA_4545*
- *Class Description: Class for generating travel data*



Step 3: Click on “finish” and your class is now created.



Step 4: Observe the following code and add Highlighted part in your existing code.

Note: there is 3 places where you need to add the table name so check it properly.

```
[CLASS] zcl_generate_travel_data_4545 DEFINITION
  PUBLIC
  FINAL
  CREATE PUBLIC .
```

```

PUBLIC SECTION.
INTERFACES if_oo_adt_classrun.
PROTECTED SECTION.
PRIVATE SECTION.
ENDCLASS.

CLASS zcl_generate_travel_data_4545 IMPLEMENTATION.
METHOD if_oo_adt_classrun~main.

DATA itab TYPE TABLE OF ztravel_4545.
itab = VALUE #(
    ( mykey = '02D5290E594C1EDA93815057FD946624' travel_id = '00000022'
agency_id = '070001' customer_id = '000077' begin_date = '20190624'
end_date = '20190628' booking_fee = '60.00' total_price = '750.00'
currency_code = 'USD' description = 'mv'
overall_status = 'A' created_by = 'MUSTERMANN' created_at =
'20190612133945.5960060' last_changed_by = 'MUSTERFRAU' last_changed_at
= '20190702105400.3647680' )
    ( mykey = '02D5290E594C1EDA93815C50CD7AE62A' travel_id = '00000106'
agency_id = '070005' customer_id = '000005' begin_date = '20190613'
end_date = '20190716' booking_fee = '17.00' total_price = '650.00'
currency_code = 'AFN' description =
'Enter your comments here' overall_status = 'A' created_by =
'MUSTERMANN' created_at = '20190613111129.2391370' last_changed_by =
'MUSTERMANN' last_changed_at = '20190711140753.1472620' )
    ( mykey = '02D5290E594C1EDA93858EED2DA2EB0B' travel_id = '00000103'
agency_id = '070010' customer_id = '000011' begin_date = '20190610'
end_date = '20190714' booking_fee = '17.00' total_price = '800.00'
currency_code = 'AFN' description =
'Enter your comments here' overall_status = 'X' created_by =
'MUSTERFRAU' created_at = '20190613105654.4296640' last_changed_by =
'MUSTERFRAU' last_changed_at = '20190613111041.2251330' )
    ( mykey = '02D5290E594C1EDA93858EED2DA2EC0C' travel_id = '00000104'
agency_id = '070011' customer_id = '000012' begin_date = '20190615'
end_date = '20190720' booking_fee = '18.00' total_price = '900.00'
currency_code = 'USD' description =
'Business Trip' overall_status = 'A' created_by = 'MUSTERFRAU'
created_at = '20190615105654.4296640' last_changed_by = 'MUSTERFRAU'
last_changed_at = '20190715111041.2251330' )
    ( mykey = '02D5290E594C1EDA93858EED2DA2ED0D' travel_id = '00000105'
agency_id = '070012' customer_id = '000013' begin_date = '20190618'
end_date = '20190725' booking_fee = '19.00' total_price = '950.00'
currency_code = 'EUR' description = 'Vacation'
overall_status = 'A' created_by = 'MUSTERFRAU' created_at =
'20190618105654.4296640' last_changed_by = 'MUSTERFRAU' last_changed_at
= '20190718111041.2251330' )
    ( mykey = '02D5290E594C1EDA93858EED2DA2EE0E' travel_id = '00000107'
agency_id = '070013' customer_id = '000014' begin_date = '20190620'
end_date = '20190730' booking_fee = '20.00' total_price = '1000.00'
currency_code = 'USD' description =
'Family Visit' overall_status = 'A' created_by = 'MUSTERFRAU' created_at
= '20190620105654.4296640' last_changed_by = 'MUSTERFRAU'
last_changed_at = '20190720111041.2251330' )

```

```

        ( mykey = '02D5290E594C1EDA93858EED2DA2EF0F' travel_id = '00000108'
agency_id = '070014' customer_id = '000015' begin_date = '20190625'
end_date = '20190728' booking_fee = '21.00' total_price = '1050.00'
currency_code = 'USD' description = 'Conference' overall_status = 'A' created_by = 'MUSTERFRAU' created_at =
'20190625105654.4296640' last_changed_by = 'MUSTERFRAU' last_changed_at =
='20190725111041.2251330' )
        ( mykey = '02D5290E594C1EDA93858EED2DA2F010' travel_id = '00000109'
agency_id = '070015' customer_id = '000016' begin_date = '20190628'
end_date = '20190801' booking_fee = '22.00' total_price = '1100.00'
currency_code = 'USD' description = 'Workshop' overall_status = 'A' created_by = 'MUSTERFRAU' created_at =
'20190628105654.4296640' last_changed_by = 'MUSTERFRAU' last_changed_at =
='20190728111041.2251330' )
        ( mykey = '02D5290E594C1EDA93858EED2DA2F111' travel_id = '00000110'
agency_id = '070016' customer_id = '000017' begin_date = '20190701'
end_date = '20190805' booking_fee = '23.00' total_price = '1150.00'
currency_code = 'EUR' description = 'Meeting' overall_status = 'A' created_by = 'MUSTERFRAU' created_at =
'20190701105654.4296640' last_changed_by = 'MUSTERFRAU' last_changed_at =
='20190801111041.2251330' )
        ( mykey = '02D5290E594C1EDA93858EED2DA2F212' travel_id = '00000111'
agency_id = '070017' customer_id = '000018' begin_date = '20190704'
end_date = '20190810' booking_fee = '24.00' total_price = '1200.00'
currency_code = 'USD' description = 'Training' overall_status = 'A' created_by = 'MUSTERFRAU' created_at =
'20190704105654.4296640' last_changed_by = 'MUSTERFRAU' last_changed_at =
='20190804111041.2251330' )
        ( mykey = '02D5290E594C1EDA93858EED2DA2F313' travel_id = '00000112'
agency_id = '070018' customer_id = '000019' begin_date = '20190708'
end_date = '20190815' booking_fee = '25.00' total_price = '1250.00'
currency_code = 'USD' description = 'Holiday' overall_status = 'A' created_by = 'MUSTERFRAU' created_at =
'20190708105654.4296640' last_changed_by = 'MUSTERFRAU' last_changed_at =
='20190808111041.2251330' )
        ( mykey = '02D5290E594C1EDA93858EED2DA2F414' travel_id = '00000113'
agency_id = '070019' customer_id = '000020' begin_date = '20190712'
end_date = '20190820' booking_fee = '26.00' total_price = '1300.00'
currency_code = 'USD' description = 'Tour' overall_status = 'A' created_by = 'MUSTERFRAU' created_at =
'20190712105654.4296640' last_changed_by = 'MUSTERFRAU' last_changed_at =
='20190812111041.2251330' )
        ( mykey = '02D5290E594C1EDA93858EED2DA2F515' travel_id = '00000114'
agency_id = '070020' customer_id = '000021' begin_date = '20190716'
end_date = '20190825' booking_fee = '27.00' total_price = '1350.00'
currency_code = 'USD' description = 'Trip' overall_status = 'A' created_by = 'MUSTERFRAU' created_at =
'20190716105654.4296640' last_changed_by = 'MUSTERFRAU' last_changed_at =
='20190816111041.2251330' )
        ( mykey = '02D5290E594C1EDA93858EED2DA2F616' travel_id = '00000115'
agency_id = '070021' customer_id = '000022' begin_date = '20190720'
end_date = '20190830' booking_fee = '28.00' total_price = '1400.00'
currency_code = 'USD' description =

```

```

'Excursion' overall_status = 'A' created_by = 'MUSTERFRAU' created_at =
'20190720105654.4296640' last_changed_by = 'MUSTERFRAU' last_changed_at
= '20190820111041.2251330' )
    ( mykey = '02D5290E594C1EDA93858EED2DA2F717' travel_id = '00000116'
agency_id = '070022' customer_id = '000023' begin_date = '20190724'
end_date = '20190905' booking_fee = '29.00' total_price = '1450.00'
currency_code = 'USD' description = 'Journey'
overall_status = 'A' created_by = 'MUSTERFRAU' created_at =
'20190724105654.4296640' last_changed_by = 'MUSTERFRAU' last_changed_at
= '20190824111041.2251330' )
    ( mykey = '02D5290E594C1EDA93858EED2DA2F818' travel_id = '00000117'
agency_id = '070023' customer_id = '000024' begin_date = '20190728'
end_date = '20190910' booking_fee = '30.00' total_price = '1500.00'
currency_code = 'USD' description =
'Adventure' overall_status = 'A' created_by = 'MUSTERFRAU' created_at =
'20190728105654.4296640' last_changed_by = 'MUSTERFRAU' last_changed_at
= '20190828111041.2251330' )
).

*   delete existing entries in the database table
DELETE FROM ztravel_4545.

*   insert the new table entries
INSERT ztravel_4545 FROM TABLE @itab.

*   output the result as a console message
out->write( |{ sy-dbcnt } travel entries inserted successfully!| ).

ENDMETHOD.
ENDCLASS.
```

Step 5: Follow the following instructions and Run the code

- CTRL+A → Select whole code
- CTRL+S → Save that code
- CTRL+F2 → To check the Syntax of code
- CTRL+F3 → To activate the script

Then click on the run button → Click on “Run As” → Click on “ABAP

Application (Console) <As per the following Screen>

Note: There is possibility that following popup come, so click on “Wrap too long lines” and run

eclipse-workspace - Class ZCL_GENERATE_TRAVEL_DATA_4545 [TRL100] - inactive, locked - TRL_EN - Eclipse IDE

The line 19 exceeds 255 characters. Source code cannot be processed.

Wrap too long lines

Click on "Wrap too long lines"

```

25 r_id = '000104' begin_date = '20201109' booking_fee = '110.00' total_price = '2400.00' currency_code = 'EUR' descr
26 r_id = '000101' begin_date = '20201110' booking_fee = '80.00' total_price = '1700.00' currency_code = 'USD' descr
27 r_id = '000105' begin_date = '20201120' booking_fee = '150.00' total_price = '1900.00' currency_code = 'USD' descr
28 r_id = '000106' begin_date = '20210105' booking_fee = '120.00' total_price = '2600.00' currency_code = 'USD' descr
29 r_id = '000107' begin_date = '20210220' booking_fee = '90.00' total_price = '2000.00' currency_code = 'USD' descr
30 r_id = '000022' begin_date = '20210201' end_date = '20210215' booking_fee = '95.00' total_price = '2100.00' currency_code = 'USD' descr
31 r_id = '000106' begin_date = '20210405' end_date = '20210415' booking_fee = '130.00' total_price = '2800.00' currency_code = 'EUR' descr
32 r_id = '000014' begin_date = '20210501' end_date = '20250510' booking_fee = '100.00' total_price = '1900.00' currency_code = 'USD' descr
33 r_id = '000020' begin_date = '20210601' end_date = '20210615' booking_fee = '110.00' total_price = '2300.00' currency_code = 'USD' descr
34 r_id = '000111' begin_date = '20220101' end_date = '20220115' booking_fee = '155.00' total_price = '3000.00' currency_code = 'EUR' descr
35 r_id = '000111' begin_date = '20220101' end_date = '20220110' booking_fee = '180.00' total_price = '2000.00' currency_code = 'USD' descr
36 r_id = '000108' begin_date = '20220105' end_date = '20220115' booking_fee = '165.00' total_price = '2400.00' currency_code = 'USD' descr
37 r_id = '000113' begin_date = '20220109' end_date = '20220119' booking_fee = '190.00' total_price = '3400.00' currency_code = 'EUR' descr
38 r_id = '000021' begin_date = '20220110' end_date = '20220110' booking_fee = '140.00' total_price = '2200.00' currency_code = 'USD' descr
39 r_id = '000113' begin_date = '20220110' end_date = '20220110' booking_fee = '175.00' total_price = '3000.00' currency_code = 'USD' descr
40 r_id = '000022' begin_date = '20220301' end_date = '20220320' booking_fee = '180.00' total_price = '2800.00' currency_code = 'EUR' descr
41 r_id = '000114' begin_date = '20220305' end_date = '20220315' booking_fee = '210.00' total_price = '4400.00' currency_code = 'USD' descr
42 r_id = '000023' begin_date = '20220301' end_date = '20220310' booking_fee = '190.00' total_price = '2900.00' currency_code = 'USD' descr
43 r_id = '000115' begin_date = '20220305' end_date = '20220315' booking_fee = '195.00' total_price = '4000.00' currency_code = 'USD' descr
44 r_id = '000115' begin_date = '20230705' end_date = '20230715' booking_fee = '220.00' total_price = '4600.00' currency_code = 'EUR' descr
45 r_id = '000024' begin_date = '20230801' end_date = '20230810' booking_fee = '200.00' total_price = '3000.00' currency_code = 'USD' descr
46 r_id = '000025' begin_date = '20230801' end_date = '20230815' booking_fee = '185.00' total_price = '3800.00' currency_code = 'USD' descr
47 r_id = '000116' begin_date = '20231005' end_date = '20231015' booking_fee = '230.00' total_price = '4800.00' currency_code = 'EUR' descr
48 r_id = '000117' begin_date = '20231005' end_date = '20231015' booking_fee = '230.00' total_price = '4800.00' currency_code = 'USD' descr
49 r_id = '000118' begin_date = '20231005' end_date = '20231015' booking_fee = '230.00' total_price = '4800.00' currency_code = 'EUR' descr
50 r_id = '000119' begin_date = '20231005' end_date = '20231015' booking_fee = '230.00' total_price = '4800.00' currency_code = 'USD' descr
51 r_id = '000113' begin_date = '20230105' end_date = '20230115' booking_fee = '175.00' total_price = '3600.00' currency_code = 'USD' descr
52 r_id = '000026' begin_date = '20230301' end_date = '20230320' booking_fee = '180.00' total_price = '2800.00' currency_code = 'USD' descr
53 r_id = '000027' begin_date = '20230305' end_date = '20230315' booking_fee = '185.00' total_price = '3200.00' currency_code = 'USD' descr
54 r_id = '000114' begin_date = '20230305' end_date = '20230315' booking_fee = '210.00' total_price = '4400.00' currency_code = 'EUR' descr
55 r_id = '000028' begin_date = '20230501' end_date = '20230510' booking_fee = '190.00' total_price = '2900.00' currency_code = 'USD' descr
56 r_id = '000124' begin_date = '20230601' end_date = '20230615' booking_fee = '195.00' total_price = '4000.00' currency_code = 'USD' descr
57 r_id = '000115' begin_date = '20230705' end_date = '20230715' booking_fee = '220.00' total_price = '4600.00' currency_code = 'EUR' descr
58 r_id = '000024' begin_date = '20230801' end_date = '20230810' booking_fee = '200.00' total_price = '3000.00' currency_code = 'USD' descr
59 r_id = '000025' begin_date = '20230801' end_date = '20230815' booking_fee = '205.00' total_price = '4200.00' currency_code = 'USD' descr
60 r_id = '000116' begin_date = '20231005' end_date = '20231015' booking_fee = '230.00' total_price = '4800.00' currency_code = 'EUR' descr

```

Save Writable Smart Insert 62: 248 [1] TRL_100, https://1374dad...and.com, CB9980005972, EN

eclipse-workspace - Class ZCL_GENERATE_TRAVEL_DATA_4545 [TRL100] - active - TRL_EN - Eclipse IDE

Run As

Click on "Run As"

Click on run button

Click on "ABAP Application (Console)"

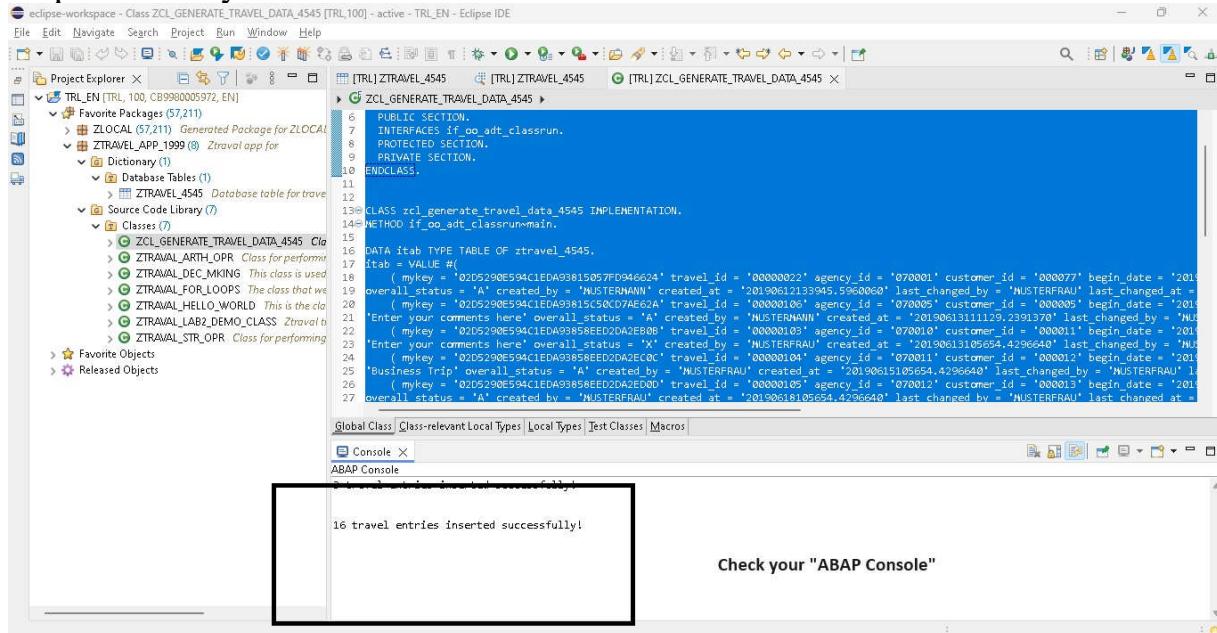
```

93 * client = '000103' descr
94 description = 'Safari tour in India' overall_status = 'A' created_by = 'MUSTERFRAU' created_at = '20230501110000,00000000' last_change
95 (client = '091' mykey = '0205290E594C1EDAA9815057F0DCE9' descr
96 description = 'Adventure tour in Greece' overall_status = 'A' created_by = 'MUSTERFRAN' created_at = '20230501110000,00000000' last_change
97 (client = '041' mykey = '0205290E594C1EDAA9815C903CD' descr
98 description = 'Adventure trip to Patagonia' overall_status = 'A' created_by = 'MUSTERFRAN' created_at = '20230501110000,00000000' last_change
99 (client = '044' mykey = '0205290E594C1EDAA98158EED20428B00' travel_id = '00000122' agency_id = '070006' customer_id = '00026' descr
100 description = 'Safari trip in Kenya' overall_status = 'A' created_by = 'MUSTERFRAN' created_at = '20230501110000,00000000' last_change
101 (client = '042' mykey = '0205290E594C1EDAA9815057F0DCE9' travel_id = '00000123' agency_id = '070006' customer_id = '00018' descr
102 description = 'Historical tour in Switzerland' overall_status = 'A' created_by = 'MUSTERFRAN' created_at = '20230501110000,00000000' last_change
103 (client = '043' mykey = '0205290E594C1EDAA98159CD7AE639' travel_id = '00000124' agency_id = '070006' customer_id = '00019' descr
104 description = 'Adventure trip to Patagonia' overall_status = 'A' created_by = 'MUSTERFRAN' created_at = '20230501110000,00000000' last_change
105 (client = '044' mykey = '0205290E594C1EDAA98158EED20428B00' travel_id = '00000125' agency_id = '070006' customer_id = '00020' descr
106 description = 'Safaritrip in Kenya' overall_status = 'A' created_by = 'MUSTERFRAN' created_at = '20230501110000,00000000' last_change
107 (client = '045' mykey = '0205290E594C1EDAA9815057F0DCE9' travel_id = '00000126' agency_id = '070006' customer_id = '00018' descr
108 description = 'Historical tour in Switzerland' overall_status = 'A' created_by = 'MUSTERFRAN' created_at = '20230501110000,00000000' last_change
109 (client = '046' mykey = '0205290E594C1EDAA98159CD7AE639' travel_id = '00000127' agency_id = '070006' customer_id = '00019' descr
110 description = 'Adventure trip to Patagonia' overall_status = 'A' created_by = 'MUSTERFRAN' created_at = '20230501110000,00000000' last_change
111 (client = '047' mykey = '0205290E594C1EDAA98158EED20428B00' travel_id = '00000128' agency_id = '070006' customer_id = '00020' descr
112 description = 'Safaritrip in Kenya' overall_status = 'A' created_by = 'MUSTERFRAN' created_at = '20230501110000,00000000' last_change
113 (client = '048' mykey = '0205290E594C1EDAA9815057F0DCE9' travel_id = '00000129' agency_id = '070007' customer_id = '00021' descr
114 description = 'Historical tour in Switzerland' overall_status = 'A' created_by = 'MUSTERFRAN' created_at = '20230501110000,00000000' last_change
115 (client = '049' mykey = '0205290E594C1EDAA9815C50CD7AE63A' travel_id = '00000130' agency_id = '070007' customer_id = '00021' descr
116 description = 'Adventure trip to Patagonia' overall_status = 'A' created_by = 'MUSTERFRAN' created_at = '20230501110000,00000000' last_change
117 (client = '050' mykey = '0205290E594C1EDAA9815057F0DCE9' travel_id = '00000131' agency_id = '070007' customer_id = '00021' descr
118 * delete existing entries in the database table
119 DELETE FROM ztravel_4545.
120
121 * insert the new table entries
122 INSERT ztravel_4545 FROM TABLE @itab.
123
124 * output the result as a console message
125 out->writeln( { sy-dbcnt } travel entries inserted successfully! ).
```

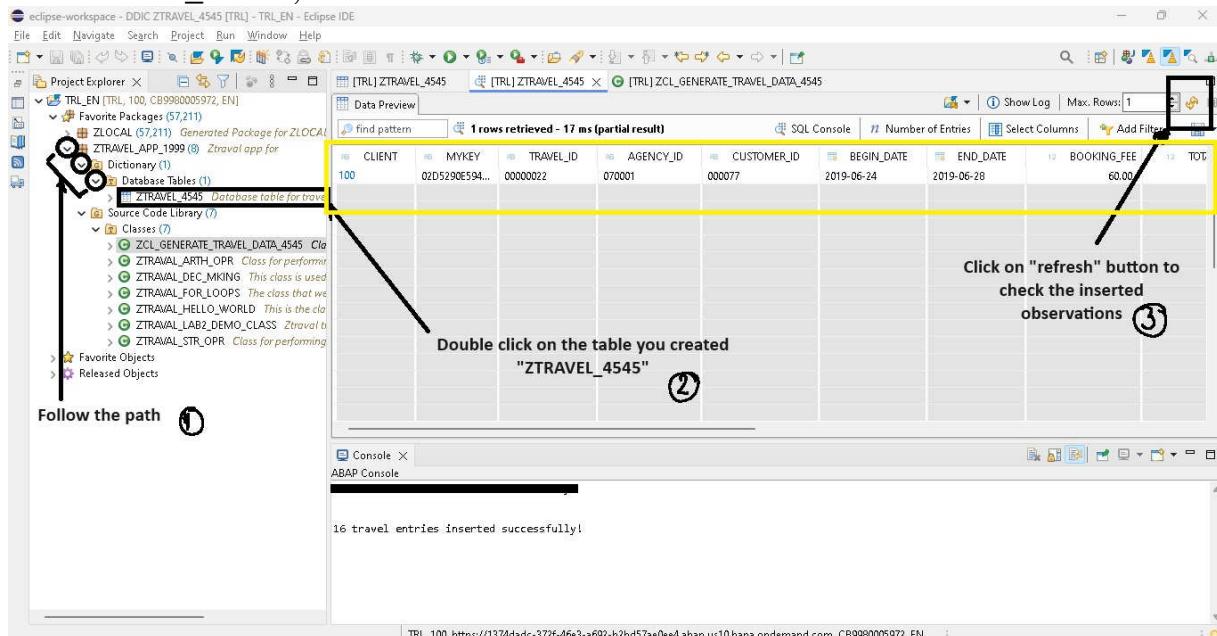
Global Class Class-relevant Local Types Local Types Test Classes Macros

Writable Smart Insert 128: 10 [2753] TRL_100, https://1374dad...and.com, CB9980005972, EN

Step 6: Check your ABAP Console



Step 7: Now follow the path and double click on the table you created “ZTRAVEL_4545”, at other end there is refresh button click on that.



Note: If you are unable to fetch the records then check some ware you made mistake while crating or inserting the data.