

Peer-graded Assignment: Peer Review: Project Submission

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Data Warehousing Fundamental

Submitted on August 25, 2024

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PROMPT

Task 1: **Submit the screenshot for the task** -
Design the dimension table MyDimDate (2 pts)

Upload the 1-MyDimDate.jpg (or .png) file for your peers to review.

TIP: If the screenshot appears small and is hard to read try zooming in by pressing "Ctrl" and "+" keys together (Mac: "Command" and "+"), or Right-click on the image and "View Image" (Firefox) or "Open Image in new Tab" (Chrome).

Design the dimension table MyDimDate

```
.theia > MyDimDate.txt
1  MyDimDate
2  - date_id
3  - date
4  - day
5  - weekday
6  - weekday_name
7  - month
8  - month_name
9  - quarter
10 - quarter_name
11 - year
```

RUBRIC

Did the learner identify the fields for **MyDimDate** table correctly?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

- ☒ **2 points** WW
Correct. The learner has identified any of the 6 fields below. (Ignore any spelling mistakes, usage of underscores and hyphens in the field names)
 - dateid
 - year
 - month
 - monthname
 - quarter
 - quartername
 - day
 - weekdayname
- ☐ **1 point**
Partially Correct. The learner has identified any of the 4 fields below. (Ignore any spelling mistakes, usage of underscores and hyphens in the field names)
 - dateid
 - year
 - month
 - monthname
 - quarter
 - quartername
 - day
 - weekday
 - weekdavname

- ☐ 0 points
Incorrect. The learner did not submit the text or less than 4 fields have been correctly identified.



PROMPT

Task 2: **Submit the screenshot for the task** -
Design the dimension table MyDimWaste (1 pts)

Upload the 2-MyDimWaste.jpg (or .png) file for your peers to review.

Design the dimension table MyDimWaste

```
.theia > MyDimWaste
1  MyDimWaste
2  - waste_id
3  - waste_type
4  - waste_tons
```

RUBRIC

Did the learner identify the fields for **MyDimWaste** table correctly?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

- ☒ **1 point** WW
Correct. The learner has identified all the 2 fields below. (Ignore any spelling mistakes, usage of underscores and hyphens in the field names)
- wastetypeid
 - wastetype
- ☐ 0 points
Incorrect. The learner did not submit the text or there is only 1 field identified.



PROMPT

Task 3: **Submit the screenshot for the task** -
Design the dimension table MyDimZone (1 pts)

Upload the 3-MyDimZone.jpg (or .png) file for your peers to review.

Design the dimension table MyDimZone

```
.theia > MyDimZone.txt
1  - zone_id
2  - zone_name
3  - city
4
```

RUBRIC

Did the learner identify the fields for **MyDimZone** table correctly?

Review the text uploaded by the learner and grade this question based on the criteria below.

- ☒ **1 point** WW
Correct. The learner has identified all the 3 fields below. (Ignore any spelling mistakes, usage of underscores and hyphens in the field names)
- zoneid
 - zonename
 - city
- ☐ 0 points
Incorrect. The learner did not submit the text or less than 3 fields have been correctly identified.



PROMPT

Task 4: **Submit the screenshot for the task** -
Design the fact table MyFactTrips (2 pts)

Upload the 4-MyFactTrips.jpg (or .png) file for your peers to review.

Design the fact table MyFactTrips

RUBRIC

Did the learner identify the fields for **MyFactTrips** table correctly?

Review the text uploaded by the learner and grade this question based on the criteria below.

- ☐ 2 points

```
.theia > MyFactTrips.txt
1 MyFactTrips
2 - trip_number
3 - waste_id
4 - zone_id
5 - date_id|
```

Correct. The learner has identified all the 5 fields below. (Ignore any spelling mistakes, usage of underscores and hyphens in the field names)

- tripid
- dateid
- wastetypeid
- zoneid
- wastecollected

- ☒ **1 point** WW
Partially Correct. The learner has identified any of the 3 of the fields below. (Ignore any spelling mistakes, usage of underscores and hyphens in the field names)

- tripid
- dateid
- wastetypeid
- zoneid
- wastecollected

- ☐ **0 points**
Incorrect. The learner did not submit the text or less than 3 fields have been correctly identified.

PROMPT

Task 5: **Submit the screenshot for the task** - Create the dimension table MyDimDate (2 pts)

Upload the 5-MyDimDate.jpg (or .png) file for your peers to review.

Create the dimension table MyDimDate

```
Query Query History
1 CREATE TABLE MyDimDate (
2   Dateid INT PRIMARY KEY,
3   date DATE NOT NULL,
4   Year INT NOT NULL,
5   Quarter INT NOT NULL,
6   QuarterName VARCHAR(2) NOT NULL,
7   Month INT NOT NULL,
8   Monthname VARCHAR(255) NOT NULL,
9   Day INT NOT NULL,
10  Weekday INT NOT NULL,
11  WeekdayName VARCHAR(255) NOT NULL
12 );
```

RUBRIC

Did the learner identify the fields and the data types for **MyDimDate** table correctly? Review the screenshot uploaded by the learner and grade this question based on the criteria below.

- ☒ **2 points** WW
Correct. The SQL query is correct and the learner has identified any 6 fields and data types below. (Ignore any spelling mistakes, usage of underscores, and hyphens in the field names. In the case of varchar fields if the number is more than one given here, consider it as correct.)

- dateid integer
- year integer
- month integer
- monthname varchar(9)
- quarter integer
- quartername varchar(2)
- day integer
- weekday integer
- weekdayname varchar(9)

- ☐ **1 point**
Partially Correct. The SQL query is correct and the learner has identified any of the 4 fields and data types below. (Ignore any spelling

mistakes, usage of underscores, and hyphens in the field names. In the case of varchar fields, if the number is more than one given here, consider it as correct.)

- dateid integer
- year integer
- month integer
- monthname varchar(9)
- quarter integer
- quartername varchar(2)
- day integer
- weekdayname varchar(9)

0 points

Incorrect. The learner did not submit the text or less than 4 fields and data types have been correctly identified.



PROMPT

Task 6: **Submit the screenshot for the task** - Create the dimension table MyDimWaste (1 pts)

Upload the 6-MyDimWaste.jpg (or .png) file for your peers to review.

Create the dimension table MyDimWaste

```
14 CREATE TABLE MyDimWaste (  
15     waste_id INT NOT NULL PRIMARY KEY  
16     waste_type VARCHAR(30)  
17     waste_tons INT NOT NULL  
18 );
```

RUBRIC

Did the learner identify the fields for **MyDimWaste** table correctly?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

1 point

Correct. The SQL query is correct and the learner has identified all the 2 fields and data types below. (Ignore any spelling mistakes, usage of underscores, and hyphens in the field names. In the case of varchar fields, if the number is more than one given here, consider it as correct.)

- wastetypeid integer
- wastetype varchar(10)

0 points

Incorrect. The learner did not submit the text or there is only 1 field and datatype identified.

WW



PROMPT

Task 7: **Submit the screenshot for the task** - Create the dimension table MyDimZone (1 pts)

Upload the 7-MyDimZone.jpg (or .png) file for your peers to review.

Create the dimension table MyDimZone

```
21 CREATE TABLE MyDimZone (  
22     zone_id INT NOT NULL PRIMARY KEY,  
23     zone_name VARCHAR(30)  
24     city VARCHAR(30)  
25 );
```

RUBRIC

Did the learner identify the fields for **MyDimZone** table correctly?

Review the text uploaded by the learner and grade this question based on the criteria below.

1 point

Correct. The SQL query is correct and the learner has identified all the 3 fields and data types below. (Ignore any spelling mistakes, usage of underscores and hyphens in the field names. In the case of varchar fields, if the number is more than one given here, consider it as correct.)

WW



- zoneid integer
- zonename varchar(7)
- city varchar(14)

0 points
Incorrect. The learner did not submit the text or less than 3 fields and data types have been correctly identified.



PROMPT

Task 8: **Submit the screenshot for the task** - Create the fact table MyFactTrips (2 pts)

Upload the 8-MyFactTrips.jpg (or .png) file for your peers to review.

Create the fact table MyFactTrips

```
27 CREATE TABLE MyFactTrips (  
28     Trip_id INT NOT NULL PRIMARY KEY,  
29     Waste_id INT  
30     zone_id INT  
31     date_id INT  
32 );
```

RUBRIC

Did the learner identify the fields for **MyFactTrips** table correctly?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

2 points
Correct. The SQL query is correct and the learner has identified all the 5 fields and data types below. (Ignore any spelling mistakes, usage of underscores and hyphens in the field names)

- tripid integer
- dateid integer
- wastetypeid integer
- zoneid integer
- wastecollected float

1 point
Partially Correct. The learner has identified any of the 3 of the fields and data types below. (Ignore any spelling mistakes, usage of underscores and hyphens in the field names)

WW

- tripid integer
- dateid integer
- wastetypeid integer
- zoneid integer
- wastecollected float

0 points
Incorrect. The learner did not submit the text or less than 3 fields and data types have been correctly identified.



PROMPT

Task 9: **Submit the screenshot for the task** - Load data into the dimension table DimDate. (1 pt)

Upload the 9-DimDate.jpg (or .png) file for your peers to review.

Load data into the dimension table DimDate

```
SELECT * FROM DIMDATE LIMIT 5
```

Result set 5

RUBRIC

Did the learner load the data into the **DimDate** table correctly?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

1 point

WW



| DATEID | DATE | YEAR | QUARTER | QUARTERNAME | MONTH | MONTHNAME |
|--------|------------|------|---------|-------------|-------|-----------|
| 1 | 2019-03-09 | 2019 | 1 | Q1 | 3 | March |
| 2 | 2019-03-10 | 2019 | 1 | Q1 | 3 | March |
| 3 | 2019-03-11 | 2019 | 1 | Q1 | 3 | March |
| 4 | 2019-03-12 | 2019 | 1 | Q1 | 3 | March |
| 5 | 2019-03-13 | 2019 | 1 | Q1 | 3 | March |

Correct. The screenshot shows data with at least 5 rows and all below columns.

- Dateid
- Date
- Year
- Quarter
- QuarterName
- Month
- Monthname
- Day
- Weekday
- WeekdayName

- ☐ 0 points
Incorrect. The screenshot was not uploaded or shows less than 5 rows.



PROMPT

Task 10: **Submit the screenshot for the task** - Load data into the dimension table DimTruck. (1 pt)

Upload the 10-DimTruck.jpg (or .png) file for your peers to review.

Load data into the dimension table DimTruck

| TRUCKID | TRUCKTYPE |
|---------|-----------|
| 115 | Volvo |
| 120 | Scania |
| 121 | Volvo |
| 122 | Scania |
| 125 | Volvo |

RUBRIC

Did the learner load the data into the **DimTruck** table correctly?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

- ☒ **1 point**
Correct. The screenshot shows data with at least 5 rows and all below columns.

WW

- Truckid
- TruckType

- ☐ 0 points
Incorrect. The screenshot was not uploaded or shows less than 5 rows.



PROMPT

Task 11: **Submit the screenshot for the task** - Load data into the dimension table DimStation. (1 pt)

Upload the 11-DimStation.jpg (or .png) file for your peers to review.

Load data into the dimension table DimStation

| STATIONID | CITY |
|-----------|----------------|
| 19 | San Paulo |
| 21 | San Paulo |
| 31 | Rio de Janeiro |
| 32 | Rio de Janeiro |
| 40 | Brazilia |

RUBRIC

Did the learner load the data into the **DimStation** table correctly?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

- ☒ **1 point**
Correct. The screenshot shows data with at least 5 rows and all below columns.

WW

- Stationid
- City

- ☐ 0 points
Incorrect. The screenshot was not uploaded or shows less than 5 rows.



SELECT * FROM FACTTRIPS LIMIT 5

Run time: 0.009 s

Result set 1

| TRIPID | DATED | STATIONID | TRUCKID | WASTECOLLECTED |
|--------|-------|-----------|---------|----------------|
| 23475 | 1 | 71 | 133 | 33.36 |
| 23476 | 1 | 46 | 162 | 34.88 |
| 23477 | 1 | 40 | 134 | 34.69 |
| 23478 | 1 | 43 | 148 | 30.01 |
| 23479 | 1 | 46 | 169 | 27.47 |

1 point

Correct. The screenshot shows at least 5 rows and all below columns.

- Tripid
- Dateid
- Stationid
- Truckid
- Wastecollected

[illegible]

2 points

Correct. The SQL query is correct and has all the items below

- Contains stationid, trucktype, sum(wastecollected) in the select
- Joins tables facttrips and dimtruck on truckid
- Has a grouping sets clause with fields stationid, trucktype

1 point

Partially Correct. The SQL query is correct and has at least 2 of the items below

- Contains stationid, trucktype, sum(wastecollected) in the select
- Joins tables facttrips and dimtruck on truckid
- Has a grouping sets clause with fields stationid, trucktype

0 points

Incorrect. The learner did not submit the text, the SQL query has less than 2 of the items included or the SQL query is not correct.

Did the learner write the SQL aggregation rollup query correctly?

[illegible]

- 0 points
Incorrect. The learner did not submit the text or the SQL is not correct.

[illegible]

- Contains stationid, city, avg(wastecollected) in the select
- Joins tables facttrips and dimstation on stationid
- Has a cube clause with fields year, city, stationid

- 0 points
Incorrect. The learner did not submit the text or the SQL is not correct.

PROMPT

Task 16: **Submit the screenshot for the task** - Create a materialized view named max_waste_per_station using the columns city, station, trucktype, max waste collected. (2 points)

Upload the 16-mv.jpg (or .png) file for your peers to review.

Create a materialized view named max_waste_per_station using the columns city, station, trucktype, max waste collected.



RUBRIC

Did the learner write the 'create materialized view' statement correctly?

Review the screenshot uploaded by the learner and grade this question based on the criteria below.

- 2 points
Correct. The sql query is correct and has **all** the items below.

- Contains city, stationid, trucktype, max_waste in create table statement
- Contains city, stationid, trucktype, max(Wastecollected) in the select clause
- Joins tables facttrips, dimstation, and dimtruck
- Has a group by clause with city, stationid, trucktyp

- 1 point
Partially Correct. The sql query is correct and has at least **two** items below.

- Contains city, stationid, trucktype, max_waste in create table statement
- Contains city, stationid, trucktype, max(Wastecollected) in the select clause
- Joins tables facttrips, dimstation, and dimtruck
- Has a group by clause with city, stationid, trucktype

- 0 points
Incorrect. The learner did not submit the text, or the sql is incorrect.

WW

Start new attempt

Comments

Comments left for the learner are visible only to that learner and the person who left the comment.

SS

Share your thoughts...

