**TASK-3**

An OLAP tool should provide for each manager a ranking of items that were sold in stores this manager is responsible for. The ranking should be based on the number of sold items (tot\_sls\_qty). Provide the SQL statement the OLAP tool could generate to retrieve this requested information from the data warehouse in a single table. This table should include the manager, the item and the number of sold items as well as the ranking position.

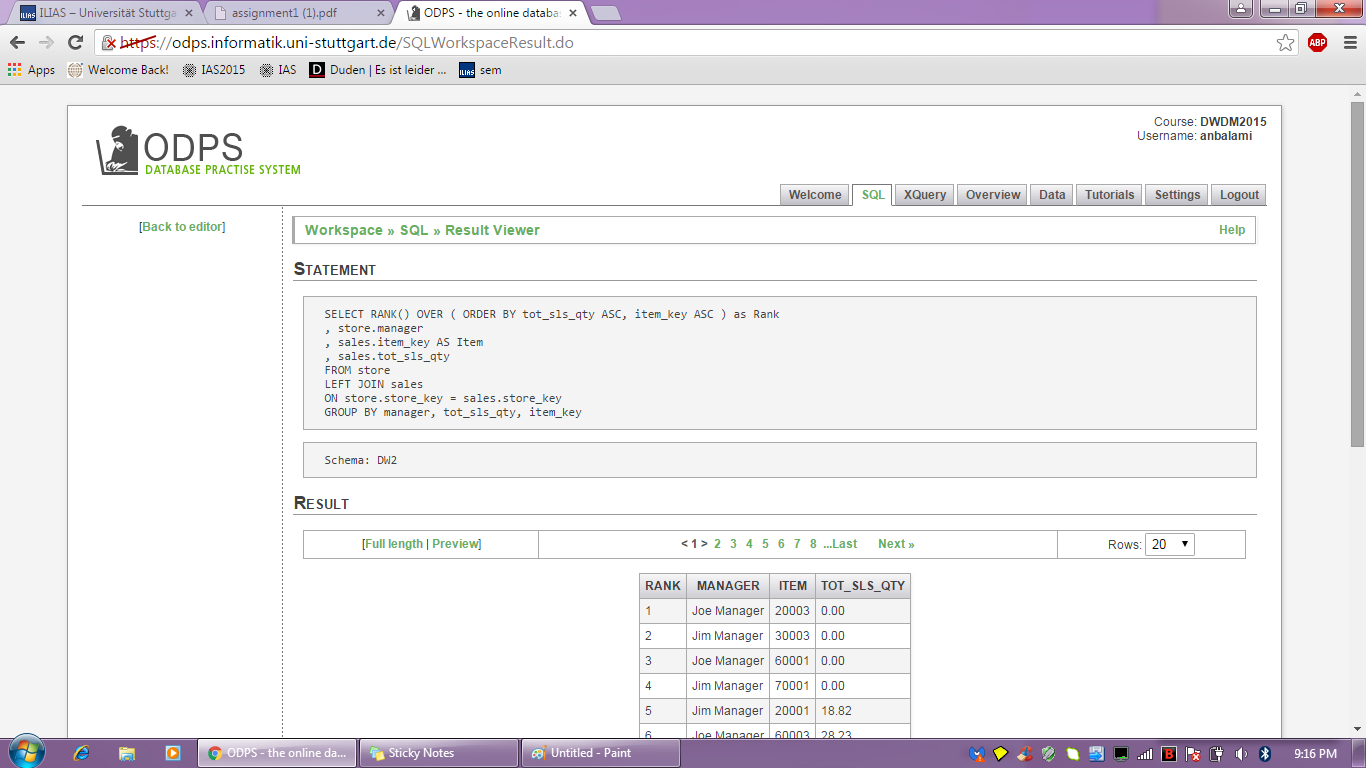
Your result document must include:

• the complete result table

• the SQL statement or the sequence of SQL statements that you used to derive the result table

• a short explanation on the idea behind the queries

1. The complete result table



1. The SQL statement or the sequence of SQL statements that you used to derive the result table

SELECT RANK() OVER ( ORDER BY tot\_sls\_qty ASC, item\_key ASC ) as Rank

, store.manager

, sales.item\_key AS Item

, sales.tot\_sls\_qty

FROM store

LEFT JOIN sales

ON store.store\_key = sales.store\_key

GROUP BY manager, tot\_sls\_qty, item\_key

1. A short explanation on the idea behind the queries

SELECT RANK() OVER ( ORDER BY tot\_sls\_qty ASC, item\_key ASC ) as Rank

, store.manager

, sales.item\_key AS Item

, sales.tot\_sls\_qty

The above line selects the Manager, Item, Tot\_sls\_qty and the ranking based on the tot\_sls\_qty.

FROM store

LEFT JOIN sales

The above line selects the respective values explained before from the store and sales table with a left join.

ON store.store\_key = sales.store\_key

GROUP BY manager, tot\_sls\_qty, item\_key

The above line joins the before mentioned tables using their primary key (store\_key) and groups by the manager, tot\_sls\_qty and the item\_key.