

NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

Cachar, Assam

B.Tech. Vth Sem

Subject Code: CS-312

Subject Name: Database Management System

Submitted By:

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Branch : CSE – B





CONNECTION: 1912160_CS312

CREATE SCHEMA `assignment7`;

TABLES

Question 1




Rooms

Result Grid		 Filter Rows: <input type="text"/>
	Rid	Roomname
	1	Pantry
	2	Conference
	NULL	NULL

Employees

Result Grid		Filter Rows:
Eid	LastName	Firstname
1	Zufall	Rainer
2	Piper	Peter
NULL	NULL	NULL

Assignments

Result Grid			Filter Rows:	
	Aid	Room	Eid	7 Days
	1	2	1	2
	2	2	1	3
	3	2	2	4
	4	2	1	5
	5	2	1	6
	6	1	2	2
	7	1	2	4
	8	1	2	6
	NULL	NULL	NULL	NULL

Question 2

Customer

Result Grid

Filter Rows:

Edit:








Export/Import

	customer_id	cust_name	city	grade	salesman_id
	3001	Brad Guzan	London	100	5005
	3002	Nick Rimando	New York	100	5001
	3003	Jozy Altidor	Moscow	200	5007
	3004	Fabian Johnson	Paris	300	5006
	3005	Graham Zusi	California	200	5002
	3007	Brad Davis	New York	200	5001
	3008	Julian Green	London	300	5002
▶	3009	Goeff Cameron	Berlin	100	5003
*	NULL	NULL	NULL	NULL	NULL

Salesman

Result Grid	Filter Rows:	Edit:	Export/I
salesman_id	name	city	commission
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13
5003	Lauson Hen	San Jose	0.12
5005	Pit Alex	London	0.11
5006	Mc Lyon	Paris	0.14
5007	Paul Adam	Rome	0.13
NULL	NULL	NULL	NULL

Orders

Result Grid			 Filter Rows:	<input type="text"/>	Edit:				Export/I
	ord_no	purch_amt	ord_date	customer_id	salesman_id				
	70001	150.5	2012-10-05	3005	5002				
	70002	65.26	2012-10-05	3002	5001				
	70004	110.5	2012-08-17	3009	5003				
	70005	2400.6	2012-07-27	3007	5001				
	70007	948.5	2012-09-10	3005	5002				
	70008	5760	2012-09-10	3002	5001				
	70009	270.65	2012-09-10	3001	5005				
	70010	1983.43	2012-10-10	3004	5003				
	70011	75.29	2012-08-17	3003	5007				
	70012	250.45	2012-06-27	3008	5006				
	70013	2480.4	2012-10-10	3009	5002				
	NULL	NULL	NULL	NULL	NULL				

1. There are 3 tables: Rooms, Employees and Assignments, which are given below. Write a query listing the person allotted in the Roomname and 7 days. i.e., sunday(1) , monday(2), tuesday(3), ... , saturday(7) as shown below table1.

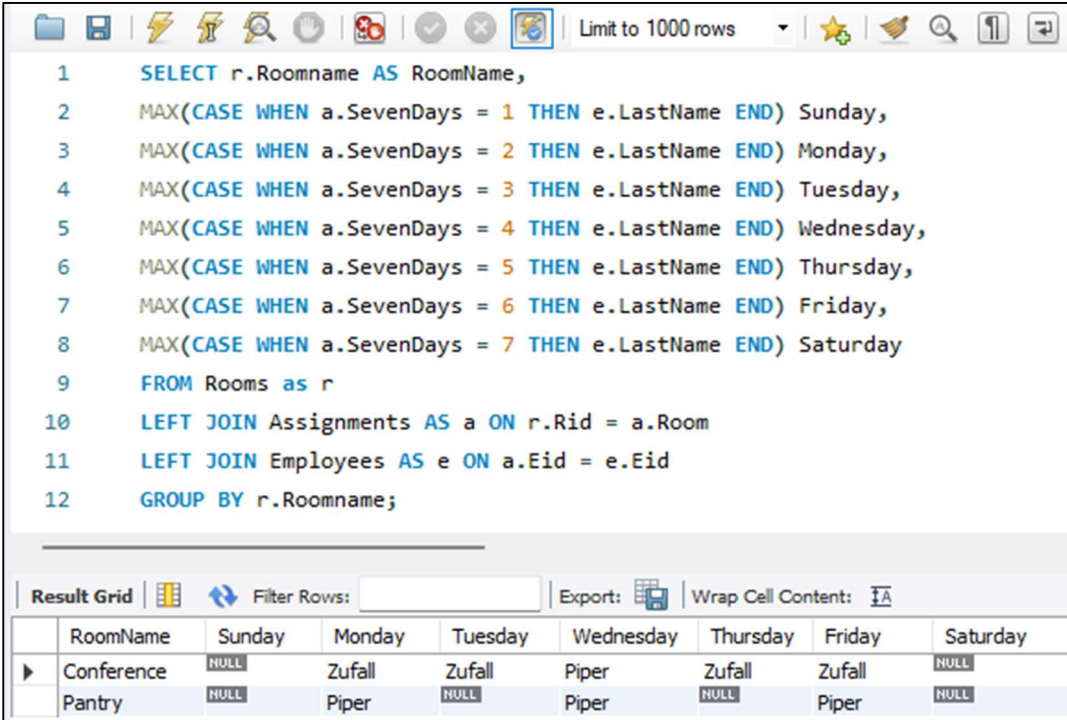
TABLE 1

RoomName	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Conference							
Pantry							

```

➔ SELECT r.Roomname AS RoomName,
MAX(CASE WHEN a.SevenDays = 1 THEN e.LastName END) Sunday,
MAX(CASE WHEN a.SevenDays = 2 THEN e.LastName END) Monday,
MAX(CASE WHEN a.SevenDays = 3 THEN e.LastName END) Tuesday,
MAX(CASE WHEN a.SevenDays = 4 THEN e.LastName END) Wednesday,
MAX(CASE WHEN a.SevenDays = 5 THEN e.LastName END) Thursday,
MAX(CASE WHEN a.SevenDays = 6 THEN e.LastName END) Friday,
MAX(CASE WHEN a.SevenDays = 7 THEN e.LastName END) Saturday
FROM Rooms as r
LEFT JOIN Assignments AS a ON r.Rid = a.Room
LEFT JOIN Employees AS e ON a.Eid = e.Eid
GROUP BY r.Roomname;

```



The screenshot shows a SQL query editor with a toolbar at the top. The query is as follows:

```

1  SELECT r.Roomname AS RoomName,
2  MAX(CASE WHEN a.SevenDays = 1 THEN e.LastName END) Sunday,
3  MAX(CASE WHEN a.SevenDays = 2 THEN e.LastName END) Monday,
4  MAX(CASE WHEN a.SevenDays = 3 THEN e.LastName END) Tuesday,
5  MAX(CASE WHEN a.SevenDays = 4 THEN e.LastName END) Wednesday,
6  MAX(CASE WHEN a.SevenDays = 5 THEN e.LastName END) Thursday,
7  MAX(CASE WHEN a.SevenDays = 6 THEN e.LastName END) Friday,
8  MAX(CASE WHEN a.SevenDays = 7 THEN e.LastName END) Saturday
9  FROM Rooms as r
10 LEFT JOIN Assignments AS a ON r.Rid = a.Room
11 LEFT JOIN Employees AS e ON a.Eid = e.Eid
12 GROUP BY r.Roomname;

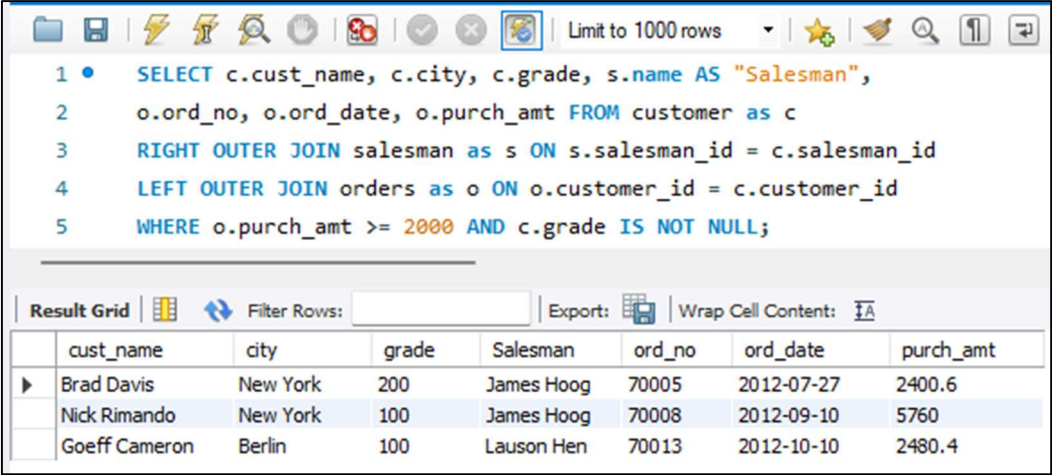
```

Below the query, there is a 'Result Grid' section. It includes a 'Filter Rows' input field, an 'Export' button, and a 'Wrap Cell Content' checkbox. The result grid itself is a table with 8 columns: RoomName, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday. The data is as follows:

RoomName	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Conference	NULL	Zufall	Zufall	Piper	Zufall	Zufall	NULL
Pantry	NULL	Piper	NULL	Piper	NULL	Piper	NULL

2. Write a SQL query to make a list for the salesmen who either work for one or more customers or yet to join any of the customers. The customer may have placed, either one or more orders on or above order amount 2000 and must have a grade, or he may not have placed any order to the associated supplier.

→ SELECT c.cust_name, c.city, c.grade, s.name AS "Salesman",
o.ord_no, o.ord_date, o.purch_amt FROM customer as c
RIGHT OUTER JOIN salesman as s ON s.salesman_id = c.salesman_id
LEFT OUTER JOIN orders as o ON o.customer_id = c.customer_id
WHERE o.purch_amt >= 2000 AND c.grade IS NOT NULL;



The screenshot shows a SQL query editor with a toolbar at the top. The query is as follows:

```
1 • SELECT c.cust_name, c.city, c.grade, s.name AS "Salesman",
2     o.ord_no, o.ord_date, o.purch_amt FROM customer as c
3     RIGHT OUTER JOIN salesman as s ON s.salesman_id = c.salesman_id
4     LEFT OUTER JOIN orders as o ON o.customer_id = c.customer_id
5     WHERE o.purch_amt >= 2000 AND c.grade IS NOT NULL;
```

Below the query, there is a "Result Grid" section. It includes a "Filter Rows" input field, an "Export" button, and a "Wrap Cell Content" checkbox. The results are displayed in a table with the following data:

	cust_name	city	grade	Salesman	ord_no	ord_date	purch_amt
▶	Brad Davis	New York	200	James Hoog	70005	2012-07-27	2400.6
	Nick Rimando	New York	100	James Hoog	70008	2012-09-10	5760
	Goeff Cameron	Berlin	100	Lauson Hen	70013	2012-10-10	2480.4