Soumen Sarker

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Tool: Oracle 11g expression

CMD: SQLPLUS

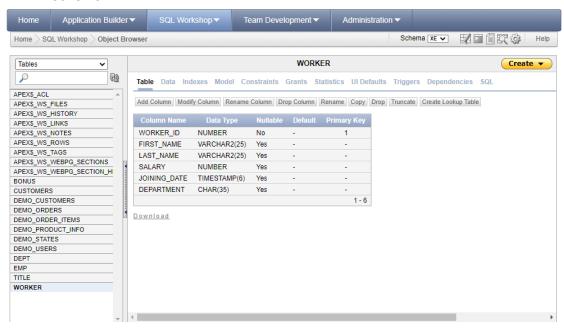
DDL PART:

*Schema design:

- Defining the table Worker
- •WORKER_ID is the Primary Key

CREATE TABLE Worker (WORKER_ID INT PRIMARY KEY, FIRST_NAME VARCHAR(25), LAST_NAME VARCHAR(25), SALARY INT, JOINING_DATE TIMESTAMP, DEPARTMENT CHAR(35));

TABLE schema

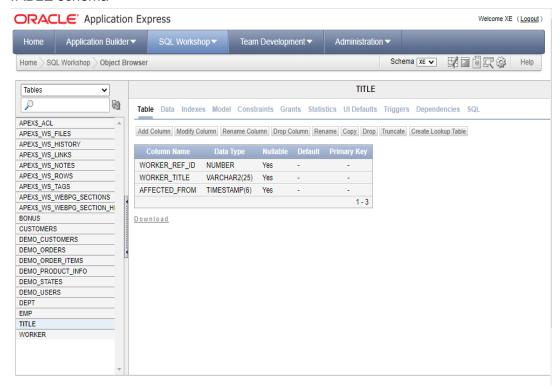


- Defining the table Title
- •WORKER_REF_ID is the foreign key in referenced with WORKER_ID

INPUT:

CREATE TABLE Title (WORKER_REF_ID INT references Worker(WORKER_ID), WORKER_TITLE VARCHAR(25), AFFECTED_FROM TIMESTAMP);

TABLE schema

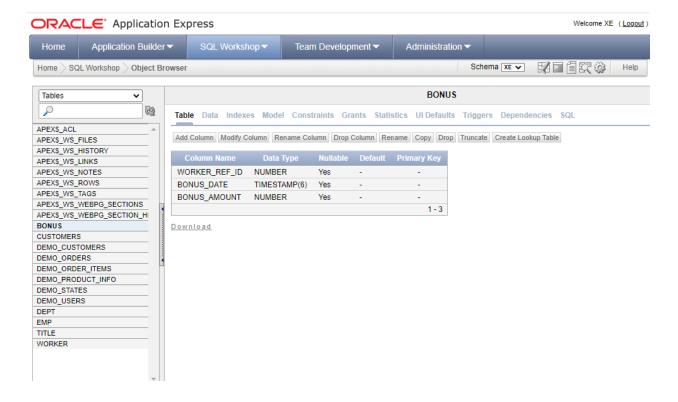


INPUT:

- Defining the table Bonus
- Worker_Ref_Id is the foreign key

CREATE TABLE Bonus (WORKER_REF_ID INT references Worker(WORKER_ID) , BONUS_DATE TIMESTAMP, BONUS_AMOUNT INT);

Table Schema:



DATA INSERTION/table entry

•input data in the table Worker

INPUT:

```
INSERT INTO Worker

VALUES(001, 'Monika', 'Arora', 100000,
timestamp '2014-02-20 09:00:00', 'HR');

VALUES(002, 'Niharika', 'Verma', 80000, timestamp '2014-06-11 09:00:00', 'Admin');

VALUES(003, 'Vishal', 'Singhal', 300000, timestamp '2014-02-20 09:00:00', 'HR');

VALUES(004, 'Amitabh', 'Singh', 500000, timestamp '2014-02-20 09:00:00', 'Admin');

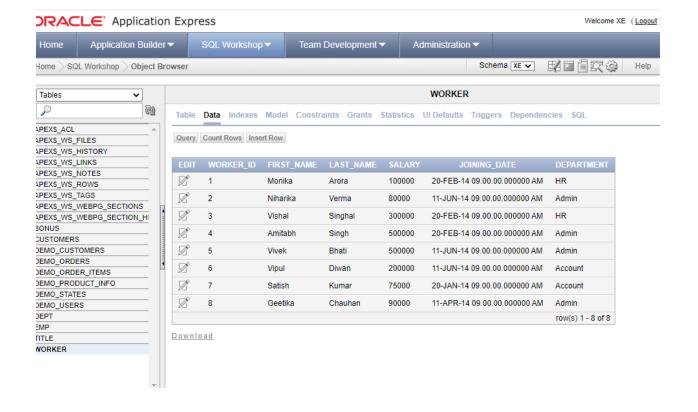
VALUES(005, 'Vivek', 'Bhati', 500000, timestamp '2014-06-11 09:00:00', 'Admin');

VALUES(006, 'Vipul', 'Diwan', 200000, timestamp '2014-06-11 09:00:00', 'Account');

VALUES(007, 'Satish', 'Kumar', 75000, timestamp '2014-01-20 09:00:00', 'Account');

VALUES(008, 'Geetika', 'Chauhan', 90000, timestamp '2014-04-11 09:00:00', 'Admin');
```

Table Data:



•input data in the table Title

INPUT

INSERT INTO Title

VALUES(1, 'Manager', timestamp '2016-02-20 00:00:00');

VALUES(2, 'Executive', timestamp '2016-06-11 00:00:00');

VALUES(8, 'Executive', timestamp '2016-06-11 00:00:00');

VALUES(5, 'Asst. Manager', timestamp '2016-06-11 00:00:00');

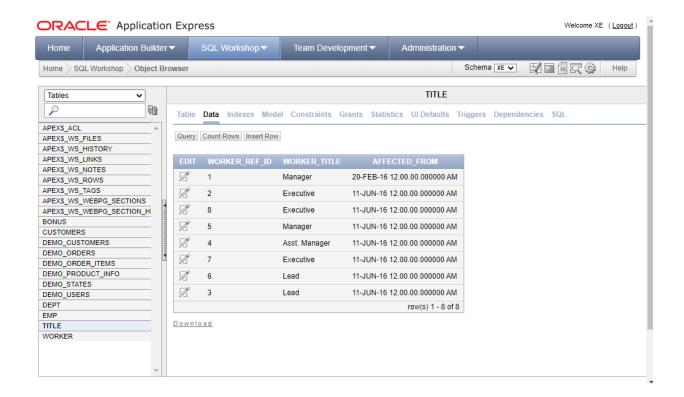
VALUES(4, 'Asst. Manager', timestamp '2016-06-11 00:00:00');

VALUES(7, 'Executive', timestamp '2016-06-11 00:00:00');

VALUES(6, 'Lead', timestamp '2016-06-11 00:00:00');

VALUES(3, 'Lead', timestamp '2016-06-11 00:00:00');

Table Data:



input data in the table Bonus

INPUT

INSERT INTO Bonus

VALUES(1, timestamp '2016-02-20 00:00:00', 5000);

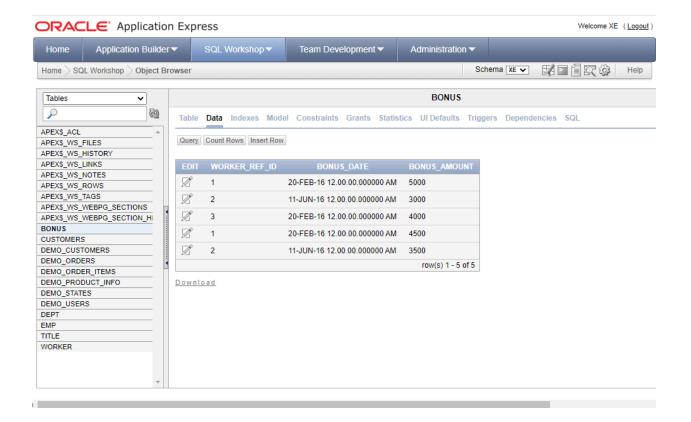
VALUES(2, timestamp '2016-06-11 00:00:00', 3000);

VALUES(3, timestamp '2016-02-20 00:00:00', 4000);

VALUES(1, timestamp '2016-02-20 00:00:00', 4500);

VALUES(2, timestamp '2016-06-11 00:00:00', 3500);

Table Data:



DML PART:

•QUERY

```
SELECT (worker.first_name||' '||worker.last_name) as
fullname,WORKER_TITLE,Worker.DEPARTMENT,WORKER.SALARY,BONUS.BONUS_AMOUNT,
count(*) over(partition by department) occurrences
FROM Worker
LEFT JOIN Title ON worker.worker_id=Title.worker_ref_id
LEFT JOIN Bonus ON Worker.WORKER_ID=Bonus.WORKER_REF_ID
```

where substr(worker.department,1,1)='A' AND (worker.first_name||worker.last_name like '%A%' or worker.first_name||worker.last_name like '%e%' or worker.first_name||worker.last_name like '%o%' or worker.first_name||worker.last_name like '%o%' or worker.first_name||worker.last_name like '%u%')

AND JOINING_DATE<to_timestamp('2014-6-11', 'YYYY-MM-DD')

Group by department, (worker.first name||'

'||worker.last_name), WORKER_TITLE, WORKER.SALARY, BONUS.BONUS_AMOUNT ORDER BY (worker.first name)|' '||worker.last name) ASC;

Run SQL Command Line					_		X
SQL> SELECT (worker.first_name NUS_AMOUNT, 2 count(*) over(partition by 3 FROM Worker 4 LEFT JOIN Title ON worker.N 5 LEFT JOIN Bonus ON Worker.N 6 where substr(worker.depart 0 rker.last_name like '%e%' or worker.first_name work 7 AND JOINING_DATEKto_timesta 8 Group by department , (wor 9 ORDER BY (worker.first_name)	department) occurr worker_id=Title.wor wORKER_ID=Bonus.WOF ment,1,1)='A' AND (prker.first_name v ker.last_name like' amp('2014-6-11', '\ rker.first_name '	rences rker_ref_id RKER_REF_ID worker.first_nam worker.last_name %u%') YYYY-MM-DD') ' worker.last_n	e worker.last_name li like'%i%' or worker.fi	ike '%A%' or worke irst_name worker.	er.firs .last_n	t_name ame li	: w
FULLNAME		WORKER_TITLE					
	SALARY BON	NUS_AMOUNT OCCURR	ENCES				
Amitabh Singh Admin	500000	Asst. Manager	2				
Geetika Chauhan Admin	90000	Executive	2				
Satish Kumar Account	75000	Executive	1				
SQL> _							