

1. Lets we take a new page and Create a New Report Region in it named “ManualGrid”. Follow fig : 1,2,3

Create Page

Page: 26

* Name ManualGrid

Title ManualGrid

Breadcrumb - do not use breadcrumbs on page -

Fig: 1

Create Region

Page: 26 - ManualGrid

Identify the type of region to add to this page:

HTML Multiple HTML Report

Form Chart Breadcrumb

PL/SQL Dynamic Content Tree URL

Calendar Help Text

Fig: 2

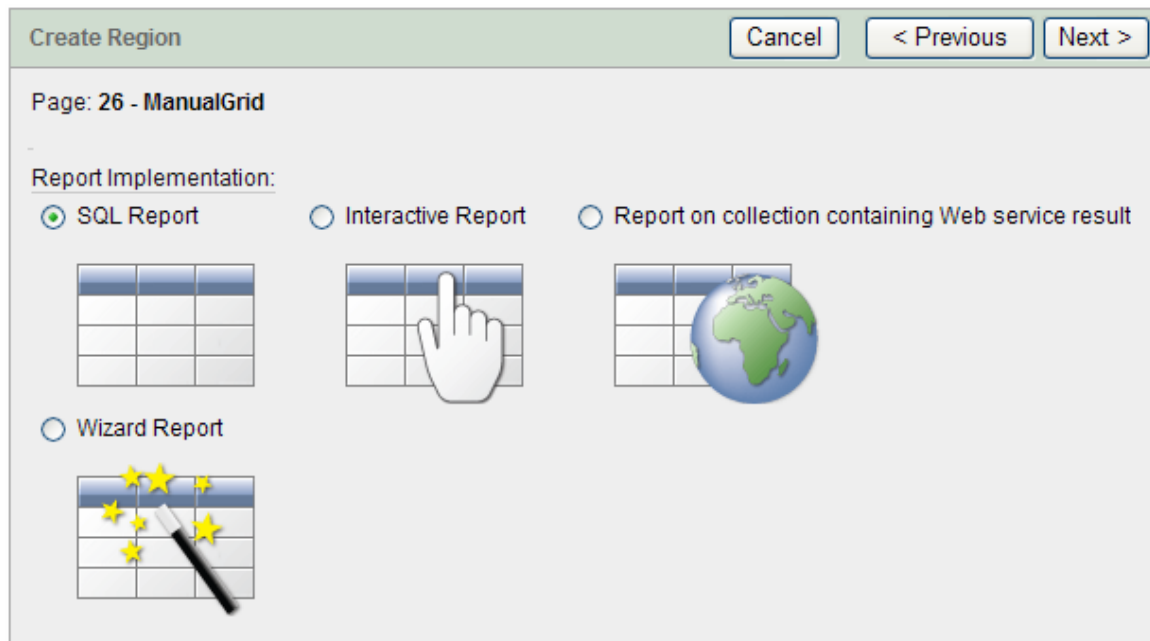


Fig: 3

2. In SQL Query type the below SQL Statement :

```

SELECT

    APEX_ITEM.TEXT(1,EMPNO,10,30) AS EMPNO,
    APEX_ITEM.TEXT(2,ENAME,10,30) AS ENAME,
    APEX_ITEM.TEXT(3,JOB,10,30) AS JOB,
    APEX_ITEM.TEXT(4,MGR,10,30) AS MGR,
    APEX_ITEM.TEXT(5,HIREDATE,10,30) AS HIREDATE,
    APEX_ITEM.TEXT(6,SAL,10,30) AS SAL,
    APEX_ITEM.TEXT(7,COMM,10,30) AS COMM,
    APEX_ITEM.TEXT(8,DEPTNO,10,30) AS DEPTNO,
    apex_item.checkbox(9,EMPNO,'UNCHECKED') AS CHECKBOX

FROM EMP

UNION ALL

SELECT

    APEX_ITEM.TEXT(1,NULL,10,30) AS EMPNO,
    APEX_ITEM.TEXT(2,NULL,10,30) AS ENAME,
    APEX_ITEM.TEXT(3,NULL,10,30) AS JOB,
    APEX_ITEM.TEXT(4,NULL,10,30) AS MGR,
    APEX_ITEM.TEXT(5,NULL,10,30) AS HIREDATE,
    APEX_ITEM.TEXT(6,NULL,10,30) AS SAL,
    APEX_ITEM.TEXT(7,NULL,10,30) AS COMM,
    APEX_ITEM.TEXT(8,NULL,10,30) AS DEPTNO,
    apex_item.checkbox(9,NULL,'UNCHECKED') AS CHECKBOX

FROM DUAL

```

Create Region Cancel < Previous Next > Create Region

Page: 26 - ManualGrid
Region Title: **EmpInfo**

Enter SQL Query or PL/SQL function returning a SQL Query:

```
SELECT
    APEX_ITEM.TEXT (1,EMPNO, 10, 30) AS EMPNO,
    APEX_ITEM.TEXT (2,ENAME, 10, 30) AS ENAME,
    APEX_ITEM.TEXT (3,JOB, 10, 30) AS JOB,
    APEX_ITEM.TEXT (4,MGR, 10, 30) AS MGR,
    APEX_ITEM.TEXT (5,HIREDATE, 10, 30) AS HIREDATE,
    APEX_ITEM.TEXT (6,SAL, 10, 30) AS SAL,
```

Query Builder

Columns Headings: Derived from query columns Generic columns

Max.Columns

Fig: 4

3. After typing the above SQL statement when you run the page it will look like Fig :5. Here we can see the blank row showing a the top . If we want to put the blank row at the bottom then go to the report properties as showing in Fig:6 uncheck checkbox of the sort column and keep the sort sequence as shown in fig:6. After completing this step the report will look like in fig : 7

EmpInfo								
EMPNO ▲	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	CHECKBOX
								<input type="checkbox"/>
7369	SMITH	CLERK	7902	17-DEC-80	800		20	<input type="checkbox"/>
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30	<input type="checkbox"/>
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30	<input type="checkbox"/>
7566	JONES	MANAGER	7839	02-APR-81	2975		20	<input type="checkbox"/>
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30	<input type="checkbox"/>
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30	<input type="checkbox"/>
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10	<input type="checkbox"/>
7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20	<input type="checkbox"/>
7839	KING	PRESIDENT		17-NOV-81	5000		10	<input type="checkbox"/>
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30	<input type="checkbox"/>
7876	ADAMS	CLERK	7788	12-JAN-83	1100		20	<input type="checkbox"/>
7900	JAMES	CLERK	7698	03-DEC-81	9500		30	<input type="checkbox"/>
7902	FORD	ANALYST	7566	03-DEC-81	3000		20	<input type="checkbox"/>
7934	MILLER	CLERK	7782	23-JAN-82	1300		10	<input type="checkbox"/>

1 - 15

Fig: 5

Column Attributes

Headings Type: Column Names Column Names (InitCap) Custom PL/SQL None

Alias	Link	Edit	Heading	Column Alignment	Heading Alignment	Show	Sum	Sort	Sort Sequence
EMPNO			EMPNO	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>		-
ENAME			ENAME	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>		-
JOB			JOB	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>		-
MGR			MGR	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>		-
HIREDATE			HIREDATE	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>		-
SAL			SAL	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>		-
COMM			COMM	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>		-
DEPTNO			DEPTNO	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>		-
CHECKBOX			CHECKBOX	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>		-

When moving the last column further down, it will show up as the first column of your report.
When moving the first column up, it will be moved to the end of your report.

Fig: 6

EmpInfo

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	CHECKBOX
7839	KING	PRESIDENT		17-NOV-81	5000		10	<input type="checkbox"/>
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30	<input type="checkbox"/>
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10	<input type="checkbox"/>
7566	JONES	MANAGER	7839	02-APR-81	2975		20	<input type="checkbox"/>
7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20	<input type="checkbox"/>
7902	FORD	ANALYST	7566	03-DEC-81	3000		20	<input type="checkbox"/>
7369	SMITH	CLERK	7902	17-DEC-80	800		20	<input type="checkbox"/>
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30	<input type="checkbox"/>
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30	<input type="checkbox"/>
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30	<input type="checkbox"/>
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30	<input type="checkbox"/>
7876	ADAMS	CLERK	7788	12-JAN-83	1100		20	<input type="checkbox"/>
7900	JAMES	CLERK	7698	03-DEC-81	9500		30	<input type="checkbox"/>
7934	MILLER	CLERK	7782	23-JAN-82	1300		10	<input type="checkbox"/>
								<input type="checkbox"/>

1 - 15

Fig : 7

- Place three button Apply Record, Delete Record and Add row as shown in Fig :8. One change I have done here that records display per page. I have set 5 records per page. Now I want to press the “Add row” button and automatically it will take me to the Last record and a blank row will be created to insert record. We have created the blank row before hand. Now I have to jump to the last and blank records. In the Developer, we could something like :

```

-----
go_block('emp');
Last_record;
Create_record;
-----

```

Now to go to the last_record we have to find out the region ID where the report resides. Follow fig: 9 to find out the region ID. Region ID will be something like : 6984517329071610. Now go to the Add row button properties as shown on fig: 12 Type as :

```
javascript:$a_report('6984517329071610',&HID_MAX_26.,5,5);
```

Now to find out the Last record or Max record in the table you need to create a process in the “On load- before header” and follow fig: 11. you can adjust this process code according to your choice of records displaying per page. After completing this step when you press “Add row” button in fig: 13 you will be given to the last record in fig : 14 to create record.

EmpInfo								
<input type="button" value="Apply Record"/>		<input type="button" value="Delete Record"/>						
EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	CHECKBOX
<input type="text" value="7839"/>	<input type="text" value="KING"/>	<input type="text" value="PRESIDENT"/>	<input type="text"/>	<input type="text" value="17-NOV-81"/>	<input type="text" value="5000"/>	<input type="text"/>	<input type="text" value="10"/>	<input type="checkbox"/>
<input type="text" value="7698"/>	<input type="text" value="BLAKE"/>	<input type="text" value="MANAGER"/>	<input type="text" value="7839"/>	<input type="text" value="01-MAY-81"/>	<input type="text" value="2850"/>	<input type="text"/>	<input type="text" value="30"/>	<input type="checkbox"/>
<input type="text" value="7782"/>	<input type="text" value="CLARK"/>	<input type="text" value="MANAGER"/>	<input type="text" value="7839"/>	<input type="text" value="09-JUN-81"/>	<input type="text" value="2450"/>	<input type="text"/>	<input type="text" value="10"/>	<input type="checkbox"/>
<input type="text" value="7566"/>	<input type="text" value="JONES"/>	<input type="text" value="MANAGER"/>	<input type="text" value="7839"/>	<input type="text" value="02-APR-81"/>	<input type="text" value="2975"/>	<input type="text"/>	<input type="text" value="20"/>	<input type="checkbox"/>
<input type="text" value="7788"/>	<input type="text" value="SCOTT"/>	<input type="text" value="ANALYST"/>	<input type="text" value="7566"/>	<input type="text" value="09-DEC-82"/>	<input type="text" value="3000"/>	<input type="text"/>	<input type="text" value="20"/>	<input type="checkbox"/>


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Fig: 8

EmpInfo

Apply Record Delete Record

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	CHECKBOX
7839	KING	PRESIDENT		17-NOV-81	5000		10	<input type="checkbox"/>
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30	<input type="checkbox"/>
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10	<input type="checkbox"/>
7566	JONES	MANAGER	7839	02-APR-81	2975		20	<input type="checkbox"/>
7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20	<input type="checkbox"/>

Add Row

Place your cursor over the next button at bottom shown below your region id will be 1 - 5 Next >

ADMIN **Region id**

Home Application 108 Edit Page 26 Create Session Activity Debug Show Edit Links

javascript:fa_report('6984517329071610','6','5','5'); Internet

Fig : 9

Create Page Process Cancel < Previous Next >

Page: 26 - ManualGrid

* Name

* Sequence

* Point

* Type PL/SQL anonymous block

Fig : 10

Create Page Process Cancel < Previous Next > Create Process

Page: 26 - ManualGrid

Point: On Load - Before Header

* Enter PL/SQL Page Process

```

declare
    x number(10) :=0;
begin
    SELECT COUNT(*) INTO x from emp;
    if x > 4 then
        :HID_MAX_26:= (x - 2);
    end if;
end;
```

Do not validate PL/SQL code (parse PL/SQL code at runtime only).

Fig : 11

Optional URL Redirect

Target is a

Page

reset pagination for this page

Request

Clear Cache (comma separated page numbers)

Set These Items (comma separated name list)

With These Values (comma separated value list)

URL Target

```
javascript:$a_report ('6984517329071610', &HID_MAX_26., 5, 5);
```

Fig : 12

EmpInfo

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	CHECKBOX
<input type="text" value="7369"/>	<input type="text" value="SMITH"/>	<input type="text" value="CLERK"/>	<input type="text" value="7902"/>	<input type="text" value="17-DEC-80"/>	<input type="text" value="800"/>	<input type="text" value=""/>	<input type="text" value="20"/>	<input type="checkbox"/>
<input type="text" value="7499"/>	<input type="text" value="ALLEN"/>	<input type="text" value="SALESMAN"/>	<input type="text" value="7698"/>	<input type="text" value="20-FEB-81"/>	<input type="text" value="1600"/>	<input type="text" value="300"/>	<input type="text" value="30"/>	<input type="checkbox"/>
<input type="text" value="7521"/>	<input type="text" value="WARD"/>	<input type="text" value="SALESMAN"/>	<input type="text" value="7698"/>	<input type="text" value="22-FEB-81"/>	<input type="text" value="1250"/>	<input type="text" value="500"/>	<input type="text" value="30"/>	<input type="checkbox"/>
<input type="text" value="7654"/>	<input type="text" value="MARTIN"/>	<input type="text" value="SALESMAN"/>	<input type="text" value="7698"/>	<input type="text" value="28-SEP-81"/>	<input type="text" value="1250"/>	<input type="text" value="1400"/>	<input type="text" value="30"/>	<input type="checkbox"/>
<input type="text" value="7844"/>	<input type="text" value="TURNER"/>	<input type="text" value="SALESMAN"/>	<input type="text" value="7698"/>	<input type="text" value="08-SEP-81"/>	<input type="text" value="1500"/>	<input type="text" value="0"/>	<input type="text" value="30"/>	<input type="checkbox"/>

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Fig : 13

EmpInfo

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	CHECKBOX
<input type="text" value="7876"/>	<input type="text" value="ADAMS"/>	<input type="text" value="CLERK"/>	<input type="text" value="7788"/>	<input type="text" value="12-JAN-83"/>	<input type="text" value="1100"/>	<input type="text" value=""/>	<input type="text" value="20"/>	<input type="checkbox"/>
<input type="text" value="7900"/>	<input type="text" value="JAMES"/>	<input type="text" value="CLERK"/>	<input type="text" value="7698"/>	<input type="text" value="03-DEC-81"/>	<input type="text" value="9500"/>	<input type="text" value=""/>	<input type="text" value="30"/>	<input type="checkbox"/>
<input type="text" value="7934"/>	<input type="text" value="MILLER"/>	<input type="text" value="CLERK"/>	<input type="text" value="7782"/>	<input type="text" value="23-JAN-82"/>	<input type="text" value="1300"/>	<input type="text" value=""/>	<input type="text" value="10"/>	<input type="checkbox"/>
<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="checkbox"/>

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Fig : 14

Create Page Process

Page: 26 - ManualGrid

* Name

* Sequence

* Point

* Type **PL/SQL anonymous block**

Fig : 15

5. For update or insert record in create a process as shown fig: 16 ,17,18,19

Process to update / insert record:

```

declare
x number(10):=0;
begin
FOR i IN 1 .. apex_application.g_f01.COUNT
LOOP
select count(EMPNO) into x from emp where empno=apex_application.g_f01(i);
if x > 0 then
UPDATE EMP
SET
ENAME=apex_application.g_f02(i),
JOB=apex_application.g_f03(i),
MGR=apex_application.g_f04(i),
HIREDATE=apex_application.g_f05(i),
SAL=apex_application.g_f06(i),
COMM=apex_application.g_f07(i),
DEPTNO=apex_application.g_f08(i)
WHERE EMPNO=apex_application.g_f01(i);
end if;

if x < 1 and apex_application.g_f01(i) is not null then

INSERT INTO EMP
(EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO)
VALUES(apex_application.g_f01(i),apex_application.g_f02(i),apex_application.g_f
03(i),apex_application.g_f04(i),apex_application.g_f05(i),apex_application.g_f06(i)
,apex_application.g_f07(i),apex_application.g_f08(i));
END IF;
END LOOP;
end;

```


Create Page Process Cancel < Previous Next > Create Process

Page: 26 - ManualGrid
Point: On Submit - After Computations and Validations

* Enter PL/SQL Page Process

```

declare
x number(10) :=0;
begin
FOR i IN 1 .. apex_application.g_f01.COUNT
LOOP
select count(EMPNO) into x from emp where
empno=apex_application.g_f01(i);
if x > 0 then
UPDATE EMP
SET
      ENAME=apex_application.g_f02(i),
      JOB=apex_application.g_f03(i),

```

Do not validate PL/SQL code (parse PL/SQL code at runtime only).

Fig : 16

Create Page Process Cancel < Previous Create Process

Page: 26 - ManualGrid
Point: AFTER_SUBMIT

When Button Pressed - No Button Condition -

Condition Type - No Button Condition -

- Process Not Condi ADD_ROW (Add Row) APPLY_RECORD (Apply Record) DELETERECORD (Delete Record)

[PL/SQL] [item=value] [it in] [exists] [none] [never]

Fig : 17

EmpInfo

Apply Record Delete Record

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	CHECKBOX
<input type="text" value="5512"/>	<input type="text" value="KAMAL"/>	<input type="text" value="ENGR"/>	<input type="text" value="7782"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text" value="5469"/>	<input type="text" value="AARON"/>	<input type="text" value="CLERK"/>	<input type="text" value="7788"/>	<input type="text" value="23-JAN-82"/>	<input type="text" value="500"/>	<input type="text"/>	<input type="text" value="20"/>	<input type="checkbox"/>
<input type="text" value="5458"/>	<input type="text" value="ELISON"/>	<input type="text" value="ENGR"/>	<input type="text" value="7698"/>	<input type="text" value="23-JAN-82"/>	<input type="text" value="3000"/>	<input type="text"/>	<input type="text" value="20"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

Add Row Previous 16 - 19

Fig : 18

- To keep the check box at the first column follow fig: 18 and 19. Now to put a check box in the checkbox column header and check / uncheck all the row follow fig: 20 and place the code in the checkbox column header as :

<input type="checkbox" onclick="\$f_CheckFirstColumn(this)" />
 And see the final look in fig : 21.
 For Delete process follow the fig: 22, 23,24

Column Attributes

Headings Type: Column Names Column Names (InitCap) Custom PL/SQL None

Alias	Link	Edit	Heading	Column Alignment	Heading Alignment	Show	Sum	Sort	Sort Sequence
<input type="checkbox"/> CHECKBOX			Checkbox	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> EMPNO			Empno	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> ENAME			Ename	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> JOB			Job	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> MGR			Mgr	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> HIREDATE			Hiredate	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> SAL			Sal	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> COMM			Comm	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> DEPTNO			Deptno	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-

When moving the last column further down, it will show up as the first column of your report.
 When moving the first column up, it will be moved to the end of your report.

Fig : 19

Column Attributes

Headings Type: Column Names Column Names (InitCap) Custom PL/SQL None

Alias	Link	Edit	Heading	Column Alignment	Heading Alignment	Show	Sum	Sort	Sort Sequence
<input type="checkbox"/> CHECKBOX			<input type="checkbox	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> EMPNO			Empno	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> ENAME			Ename	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> JOB			Job	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> MGR			Mgr	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> HIREDATE			Hiredate	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> SAL			Sal	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> COMM			Comm	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-
<input type="checkbox"/> DEPTNO			Deptno	left		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-

When moving the last column further down, it will show up as the first column of your report.
 When moving the first column up, it will be moved to the end of your report.

Fig : 20

EmpInfo

Apply Record Delete Record

<input checked="" type="checkbox"/>	Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
<input checked="" type="checkbox"/>	5512	KAMAL	ENGR	7782				
<input checked="" type="checkbox"/>	5469	AARON	CLERK	7788	23-JAN-82	500		20
<input checked="" type="checkbox"/>	5458	ELISON	ENGR	7698	23-JAN-82	3000		20
<input checked="" type="checkbox"/>								

Previous 16 - 19

Add Row

Fig : 21

* Enter PL/SQL Page Process

```

declare
x number(10) :=0;
BEGIN

FOR i IN 1 .. apex_application.g_f09.COUNT
LOOP
DELETE EMP WHERE EMPNO=apex_application.g_f09(i);
END LOOP;
END;
```

Fig : 22

Create Page Process Cancel < Previous Create Process

Page: 26 - ManualGrid
Point: AFTER_SUBMIT

When Button Pressed: - No Button Condition -

Condition Type: - No Button Condition -

- Process Not Condition: ADD_ROW (Add Row) APPLY_RECORD (Apply Record) DELETERECORD (Delete Record)

[PL/SQL] [item=value] [item] [exists] [none] [never]

Expression 1

Fig : 23

EmpInfo

<input type="checkbox"/>	Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
<input type="checkbox"/>	5512	KAMAL	ENGR	7782				
<input checked="" type="checkbox"/>	5469	AARON	CLERK	7788	23-JAN-82	500		20
<input type="checkbox"/>								

[Previous](#) 16 - 18

Fig : 24

End of document