

Connect System

pass word : fast

Create a local user first:

Create user your_user identified by fast;

Grant all privileges to your_user;

Connect your_user

Password fast;

Create table emp20 (id number, name varchar(20), age number, address varchar(20), salary number);

Insert into emp20(id, name, age, address, salary)

Select 1, 'Adams', 25, 'South Wales', 2400 from dual union all

Select 2, 'James', 23, 'Orlando', 2100 from dual union all

Select 3, 'Leena', 27, 'Vatican City', 2900 from dual union all

Select 4, 'John', 29, 'North Hampshire', 3100 from dual union all

Select 5, 'Nancy', 24, 'Dublin', 2500 from dual union all

Select 6, 'Sarah', 22, 'Dublin', 2700 from dual;

//Create a trigger on insert of emp20

create or replace trigger emp20_trigger

before delete or insert or update on emp20

for each row

declare

new_sal number;

begin

new_sal := :new.salary - :old.salary;

dbms_output.put_line("");

dbms_output.put_line('Old Salary ' || :old.salary);

dbms_output.put_line('New Salary ' || :new.salary);

dbms_output.put_line('Difference ' || new_sal);

dbms_output.put_line("");

end;

/

Now insert a new record but before that

set serveroutput on;

insert into emp20 values(7, 'Jenny', 24, 'Paris', 2900);

create or replace trigger emp20_trigger2

before update of salary on emp20

for each row

declare

inc_sal number;

begin

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new_sal := :old.salary * 1.15;
dbms_output.put_line("");
dbms_output.put_line('Old Salary ' || :old.salary);
dbms_output.put_line('new salary THROUGH UPDATE ' || :new.salary);
dbms_output.put_line('Incremented sal using assignment ' || inc_sal);
dbms_output.put_line("");
end;

```

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create table product(product_id number, product_name varchar(20), supplier_name
varchar(20), product_price number(7,2));
create table product_price_history(product_id number, product_name varchar(20),
supplier_name varchar(20), product_price number(7,2));

```

```

create or replace trigger pice_history_trigger
before update of product_price on product
for each row
begin
insert into product_price_history values(:old.product_id, :old.product_name, :old.supplier_name,
:old.product_price);
end;

```

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insert into product values (101, 'Laptop', 'Dell', 230);
insert into product values (102, 'Laptop', 'HP', 262.22);

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select * from product;
select * from product_price_history;

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update product set product_price = 800 where product_id = 101;

```

```

select * from product_price_history;

```

```

//hierarchy of Triggers
/Before Statement
/Before Row level
/After Row Level
/After Statement

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create table product_check(message varchar(50), current_time timestamp);

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```
create or replace trigger before_update_stmt_trigger
before
  update on product
begin
insert into product_check values('Before Update Stmt Level', sysdate);
end;
```

```
create or replace trigger before_update_row_trigger
before
  update on product
for each row
begin
insert into product_check values('Before Update Row Level', sysdate);
end;
```

```
create or replace trigger after_update_stmt_trigger
after
  update on product
begin
insert into product_check values('After Update Stmt Level', sysdate);
end;
```

```
create or replace trigger after_update_row_trigger
after
  update on product
for each row
begin
insert into product_check values('After Update Row Level', sysdate);
end;
```

```
select * from product;
select * from product_check;
```

```
update product set product_price = 400 where product_id = 400;
```

```
select * from product_check;
```

