

Trigger assignment:

```
Create table mainData(  
    data_id int not null auto_increment,  
    position varchar(30),  
    name varchar(30),  
    year varchar(2),  
    primary key (data_id)  
);  
Create table TEData(  
    data_id int,  
    position varchar(30),  
    name varchar(30)  
);  
Create table BEData(  
    data_id int,  
    position varchar(30),  
    name varchar(30)  
);  
Create table backupData(  
    backup_id int not null auto_increment,  
    data_id int,  
    position varchar(30),  
    name varchar(30),  
    year varchar(2),  
    action_type varchar(10),  
    Action_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    primary key (backup_id)  
);
```

```
INSERT INTO mainData (position, name, year)  
VALUES  
( 'Tech Head', 'Manas Gawail', 'TE'),  
( 'Marketing Head', 'Pratik Chavan', 'TE'),  
( 'Magazine Secretary', 'Amulya Agarwal', 'BE');
```

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```
Create trigger before_update_mainData  
BEFORE UPDATE ON mainData  
FOR EACH ROW  
BEGIN  
INSERT INTO backupData (data_id, position, name, year, action_type)  
VALUES (OLD.data_id, old.position, old.name, old.year, 'UPDATE');  
END $$
```

```
Create trigger before_delete_mainData
BEFORE DELETE ON mainData
FOR EACH ROW
BEGIN
INSERT INTO backupData (data_id, position, name, year, action_type)
VALUES (OLD.data_id, old.position, old.name, old.year, 'DELETE');
END $$
```

```
Create trigger after_insert_mainData
AFTER INSERT ON mainData
For each row
Begin
If new.year = 'TE' then
Insert into TEData values(new.data_id, new.position, new.name);
Elseif new.year = 'BE' then
Insert into BEData values(new.data_id, new.position, new.name);
End if;
End $$
```

```
Create trigger after_delete_mainData
AFTER DELETE ON mainData
For each row
Begin
If old.year = 'TE' then
Delete from TEData where data_id = old.data_id;
Elseif old.year = 'BE' then
Delete from BEData where data_id = old.data_id;
End if;
End $$
```

```
Create trigger after_update_mainData
AFTER UPDATE ON mainData
For each row
Begin
If old.year = 'TE' then
Delete from TEData where data_id = old.data_id;
Elseif old.year = 'BE' then
Delete from BEData where data_id = old.data_id;
End if;
If new.year = 'TE' then
Insert into TEData values(new.data_id, new.position, new.name);
Elseif new.year = 'BE' then
Insert into BEData values(new.data_id, new.position, new.name);
End if;
```

End \$\$

Update mainData

Set year='SY' and name='Manas Gawali' where name='Manas Gawail';

INSERT INTO mainData (position, name, year)

VALUES

('PRO', 'Trishit Guin', 'TE'),

('Joint Secretary', 'Kshitij Dhake', 'BE');