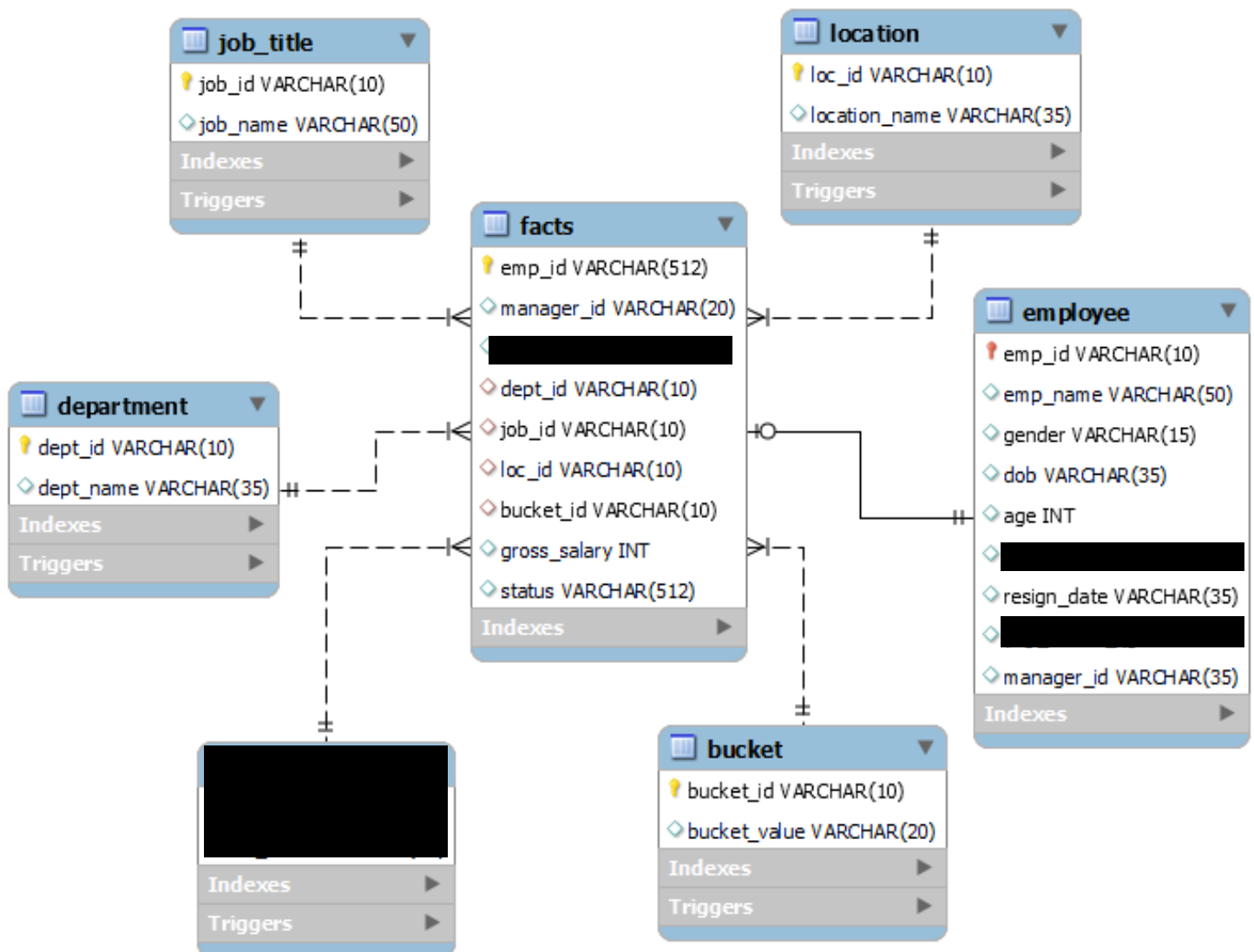


BEFORE DIMENSIONAL MODELLING

master	
EmpNo	VARCHAR(512)
Name	VARCHAR(512)
Gender	VARCHAR(512)
Date_of_Birth	VARCHAR(512)
Resign_Date	VARCHAR(512)
Age	INT
Designation	VARCHAR(512)
Department	VARCHAR(512)
Location	VARCHAR(512)
Gross	INT
AS_ON	VARCHAR(512)
Manager	VARCHAR(512)
Status	VARCHAR(512)

AFTER DIMENSIONAL MODELLING



SQL QUERIES USED

TO CREATE EMPLOYEE TABLE:

```
create table employee(  
emp_id varchar(10),  
emp_name varchar(50),  
gender varchar(15),  
dob varchar(35),  
age int,  
[REDACTED] varchar(35),  
resign_date varchar(35),  
[REDACTED] float,  
[REDACTED] float,  
manager_id varchar(35)  
);
```

```
insert into employee (emp_id, emp_name, gender,  
dob, age, [REDACTED], resign_date, [REDACTED],  
[REDACTED], manager_id)  
(select EmpNo, Name, Gender, Date_of_Birth,  
Age, [REDACTED], Resign_Date, [REDACTED],  
[REDACTED], manager_id from master);
```

```
UPDATE employee  
SET dob = STR_TO_DATE(dob, '%c/%e/%y');
```

```
update employee  
set dob = '[REDACTED]'  
where emp_id = '[REDACTED]';
```

TO CREATE DEPARTMENT TABLE :

```
create table department(  
dept_id varchar(10),  
dept_name varchar(35)  
)  
  
delimiter //  
create trigger dept_row_trigger  
before insert on department  
for each row  
begin  
    declare did varchar(10);  
    set did = (select concat('D',  
lpad(count(1)+1, 3, 0)) from department);  
    set new.dept_id = did;  
end;  
// delimiter ;  
  
insert into department(dept_name)  
(select distinct(department) from master);
```

TO CREATE █████ TABLE :

```
CREATE TABLE █████ (  
    █████ VARCHAR(10),  
    █████ VARCHAR(50)  
);  
  
DELIMITER //  
CREATE TRIGGER before_insert_█████  
BEFORE INSERT ON █████  
FOR EACH ROW  
BEGIN
```

```

DECLARE new_id VARCHAR(10);
SET new_id = (SELECT CONCAT('L', LPAD(COUNT(1) + 1, 3,
'0')) FROM █████);

SET NEW.█████_id = new_id;
END;
//
DELIMITER ;

insert into █████(█████)
(select distinct(█████) from master
order by █████);

```

TO CREATE JOB TITLE TABLE :

```

create table job_title(
job_id varchar(10),
job_name varchar(50))

delimiter //
create trigger before_insert_job_title
before insert on job_title
for each row
begin
    declare jid varchar(10);
    set jid = (select concat('J', lpad(count(1)+1, 3 ,
0)) from job_title);
    set new.job_id = jid;
end;
// delimiter ;

insert into job_title(job_name)
(select distinct(designation) from master);

```

TO CREATE LOCATION TABLE :

```
create table location(  
loc_id varchar(10),  
location_name varchar(35))  
  
delimiter //  
  
create trigger loc_insert_trigger  
before insert on location  
for each row  
begin  
    declare l_id varchar(10);  
    set l_id = (select concat('L', lpad(count(1)+1, 3,  
0)) from location);  
    set new.loc_id = l_id;  
end;  
  
// delimiter ;  
  
insert into location(location_name)  
(select distinct(location) from master);
```

TO CREATE EXP. BUCKET TABLE :

```
create table bucket(  
bucket_id varchar(10),  
bucket_value varchar(20))  
  
delimiter //  
create trigger bucket_id_insert  
  
before insert on bucket
```

```

for each row
begin
    declare bid varchar(10);
    set bid = (select concat('B', lpad(count(1) + 1, 3,
0)) from bucket);
    set new.bucket_id= bid;
end;
// delimiter ;

insert into bucket(bucket value)
(select distinct( ) from master);

```

TO CREATE FACT TABLE :

```

create table facts as
with cte as (
select m.*, ,d.dept_id, j.job_id, loc.loc_id,
b.bucket_id
from master m
left join  l
on m. = l.
left join department d
on d.dept_name = m.Department
left join job_title j
on m.Designation = j.job_name
left join location loc
on loc.location_name = m.Location
left join bucket b
on b.bucket_value = m.YOE_Range
)

select EmpNO AS emp_id, manager_id, , dept_id,
job_id, , bucket_id, Gross as gross_salary,
Status as status
from cte;

```

emp_id	manager_id		dept_id	job_id	loc_id	bucket_id	gross_salary	status
			D001	J001	L001	B001		Active
			D002	J002	L002	B002		Active
			D002	J003	L001	B002		Active
			D002	J004	L001	B002		Active
			D002	J005	L001	B002		Active
			D002	J003	L002	B002		Active
			D002	J004	L001	B002		Active
			D002	J003	L001	B002		Active
			D001	J006	L001	B002		Active
			D002	J003	L001	B003		Active
			D002	J005	L001	B002		Servi...
			D002	J005	L001	B002		Active
			D002	J003	L001	B003		Active