**Check point No: 1**

***Capstone project No 3: Candidate Renege\_ Data Description***

***Capstone project No: 3***

***Batch Name: E***

***Group No:3***

***Group members:***

***1. Pradyumna Bopanna***

***2. Ravi Guntakala***

***3. Harsha Vardhan Etcherla***

***4. Hema Sri Gandi***

***5. Swarna Deepika Gurivindapudi***

**Task 1.2 (SQL-Oracle)**

**Stage 1:**

Construct an ER-Diagram for the above-mentioned Requirement

**Diagram, engineering drawing

Description automatically generated**

2.Construct Tables as per the ER-Diagram

create table joining\_status(

candidate\_ref number(38) not null,

status VARCHAR2(26)

);

create table interview\_dates(

candidate\_ref number(38) not null,

date\_of\_interview date

);

create table domicile\_master(

domicile\_id VARCHAR2(26),

domicile\_name VARCHAR2(26));

create table HR\_Hiring\_details\_transaction(

Sno number(38),

Candidate\_Ref number(38),

DOJ\_Extended varchar2(26),

Duration\_to\_accept\_offer number(38),

Notice\_Period number(38),

Offered\_Band varchar2(26),

Percent\_hike\_expected\_in\_CTC number(38,2),

Percent\_hike\_offered\_in\_CTC number(38,2),

Percent\_difference\_CTC number(38,2),

Joining\_Bonus varchar2(26),

Candidate\_relocate\_actual varchar2(26),

Gender varchar2(26),

Candidate\_Source varchar2(26),

Rex\_in\_Yrs number(38),

Location\_ID varchar2(26),

Postal\_Code number(38),

Age number(38),

LOB\_Id number(38),

Domicile\_ID varchar2(26)

);

create table location\_master(

location\_id varchar2(26),

region\_id varchar2(26),

location varchar2(26)

);

create table lob\_master(

lob\_id number(38),

lob varchar2(26)

);

create table region\_master(

region\_id varchar2(26),

region\_name varchar2(26)

);

Note:

we are directly imported the data into database from Excel sheets, so it will automatically creates the tables. but just for reference we added the table creation queries here.

3.Identify the relationships between tables and use appropriate standards for the same where applicable.

**/\* DOMICILE\_MASTER\*/**

ALTER TABLE DOMICILE\_MASTER

ADD PRIMARY KEY (DOMICILE\_ID);

**/\* INTERVIEW\_DATES\*/**

ALTER TABLE INTERVIEW\_DATES

ADD FOREIGN KEY (CANDIDATE\_REF) REFERENCES JOINING\_STATUS(CANDIDATE\_REF)

ADD PRIMARY KEY (CANDIDATE\_REF);

**/\* JOINING\_STATUS\*/**

ALTER TABLE JOINING\_STATUS

ADD PRIMARY KEY (CANDIDATE\_REF)

**/\* LOB\_MASTER\*/**

ALTER TABLE LOB\_MASTER

ADD PRIMARY KEY (LOB\_ID);

**/\* LOCATION\_MAS\*/**

ALTER TABLE LOCATION\_MAS

ADD FOREIGN KEY (REGION\_ID) REFERENCES REGION\_MASTER(REGION\_ID);

ADD PRIMARY KEY (LOCATION\_ID)

**/\* REGION\_MASTER\*/**

ALTER TABLE REGION\_MASTER

ADD PRIMARY KEY (REGION\_ID);

**/\* HR\_HIRING\_DETAILS\_TRANSACTION\*/**

ALTER TABLE HR\_HIRING\_DETAILS\_TRANSACTION

ADD FOREIGN KEY (LOCATION\_ID) REFERENCES LOCATION\_MASTER(LOCATION\_ID)

ADD FOREIGN KEY (DOMICILE\_ID) REFERENCES DOMICILE\_MASTER(DOMICILE\_ID)

ADD FOREIGN KEY (CANDIDATE\_REF) REFERENCES INTERVIEW\_DATES(CANDIDATE\_REF)

ADD FOREIGN KEY (LOCATION\_ID) REFERENCES LOCATION\_MASTER(LOCATION\_ID);

ADD FOREIGN KEY (LOB\_ID) REFERENCES LOB\_MASTER(LOB\_ID)

ADD PRIMARY KEY (SNO);

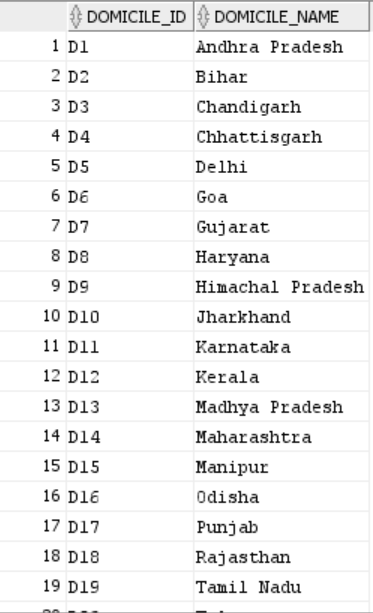
Diagram

Description automatically generated

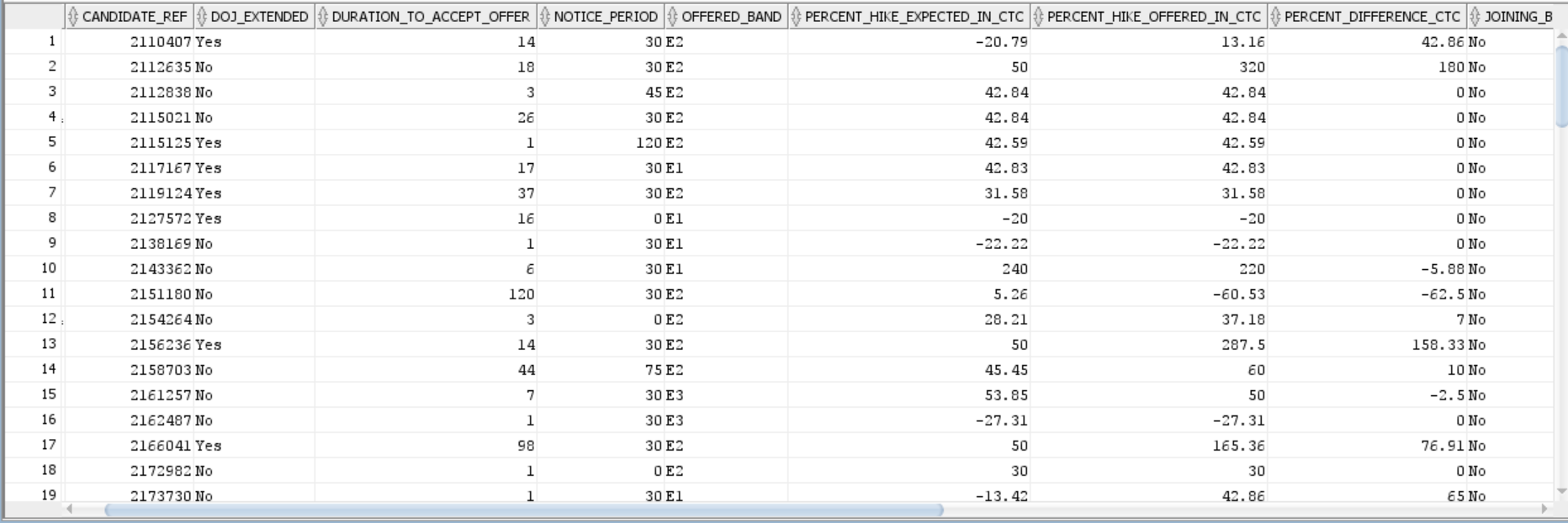
**Relationship schema**

4.Insert the appropriate data into the identified tables from the sample dataset provided

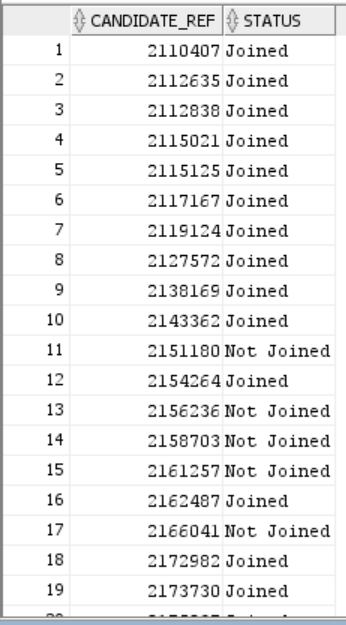
1.Domicile\_master



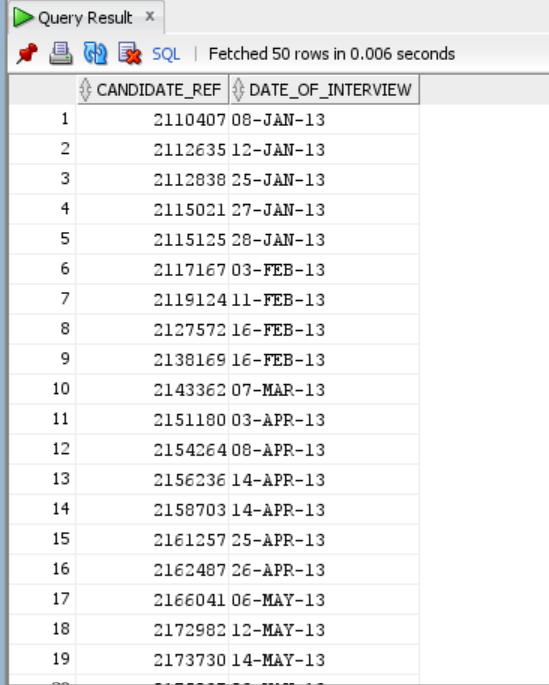
2.HR\_HIRING\_DETAILS\_TRANSACTION



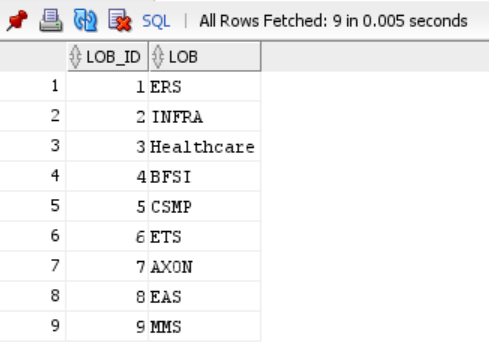
3.JOINING STATUS



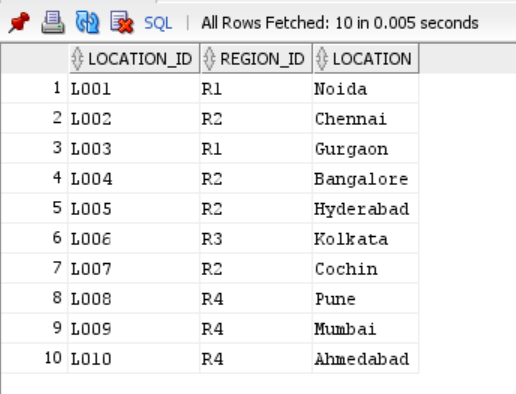
4.INTERVIEW\_DATES



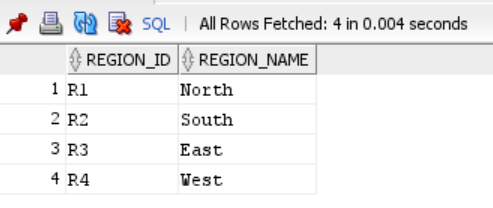
5.LOB\_MASTER



6.LOCATION\_MASTER



7.REGION\_MASTER



Note:

We are having very large dataset around 9000 rows in each dataset, so it is not possible to insert the data manually. So, we are imported the data into oracle database.

**Stage 2:**

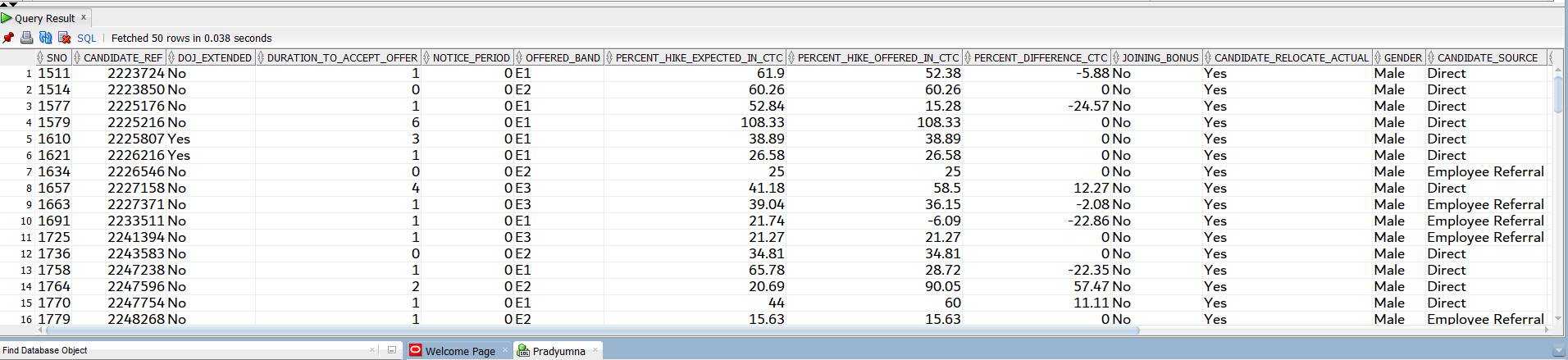
1. Generate Info those candidates who have accepted offer and joining time is less then 30 days and candidates who are ready to re-locate.

select \* from HR\_HIRING\_DETAILS\_TRANSACTION HR

LEFT join JOINING\_STATUS J ON HR.Candidate\_Ref = J.Candidate\_Ref

where Notice\_Period<30 and Candidate\_relocate\_actual='Yes' and status='Joined'

**Output:**



**Explanation:**

Displayed the info of candidates where notice period is less than 30 days, ready to relocate

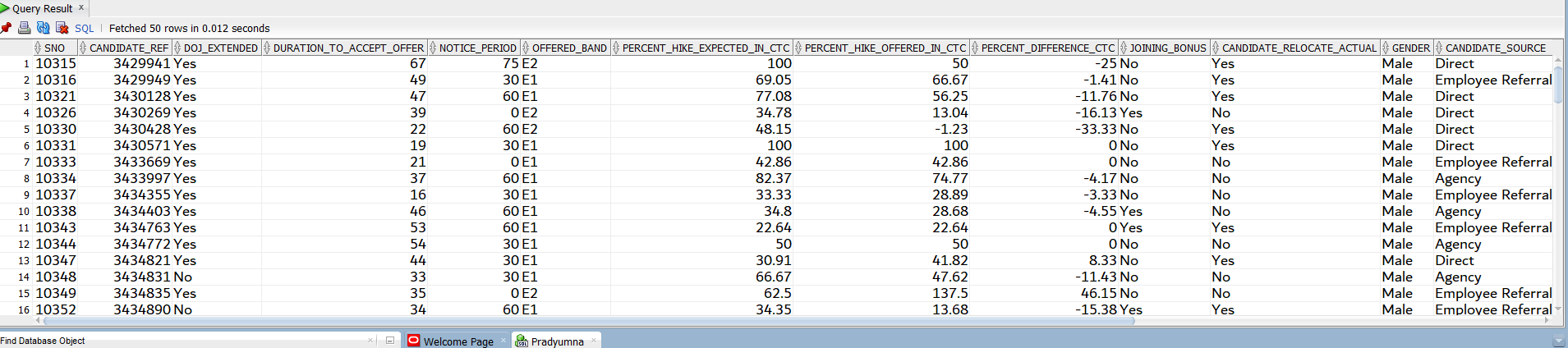
2. Generate Info those candidates who have accepted offer and also display list the candidates who have been offered and yet to accept the offer within 10 days.

select \* from HR\_HIRING\_DETAILS\_TRANSACTION HR

LEFT join JOINING\_STATUS J ON HR.Candidate\_Ref = J.Candidate\_Ref

where Duration\_to\_accept\_offer >10 and status='Joined'

**Output:**



**Explanation:**

Displayed info of candidates where duration to accept offer greater than 10 days and joining status joined

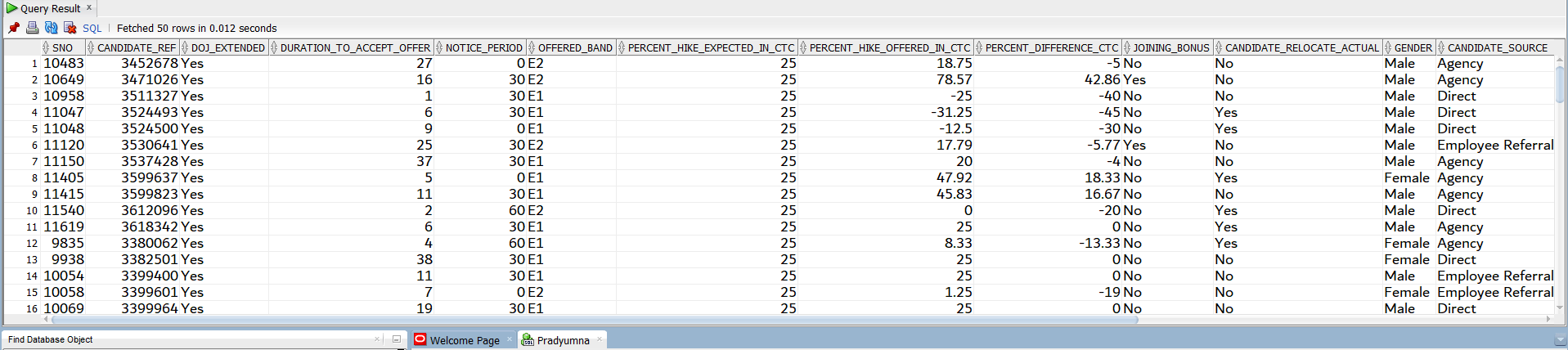
3. Generate Info those candidates who are willing to join and the ECTC is 25% hike from their CTC

select \* from HR\_HIRING\_DETAILS\_TRANSACTION HR

LEFT join JOINING\_STATUS J ON HR.Candidate\_Ref = J.Candidate\_Ref

where DOJ\_Extended= 'Yes' and status='Joined' and Percent\_hike\_expected\_in\_CTC=25

**Output:**



**Explanation:**

Displayed info of candidates whose doj is extended, joining status joined and percentage of ECTC IS 25%

4. Generate Info those candidates who are willing to join and the ECTC is 25% hike from their CTC joining time is less then 30 days and candidates who are ready to re-locate and joining bonus is offered.

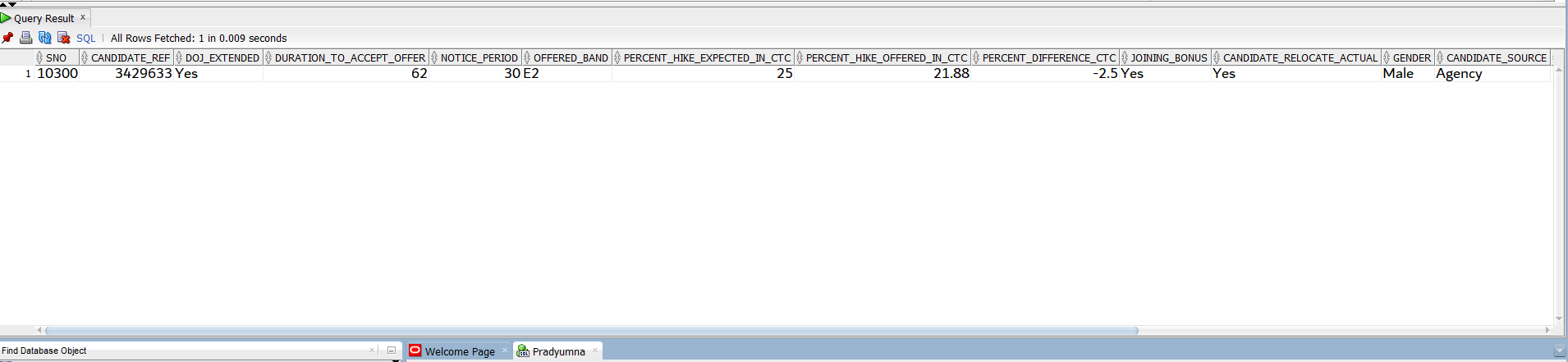
select \* from HR\_HIRING\_DETAILS\_TRANSACTION HR

LEFT join JOINING\_STATUS J ON HR.Candidate\_Ref = J.Candidate\_Ref

where DOJ\_Extended= 'Yes' and status='Joined' and Percent\_hike\_expected\_in\_CTC=25 and

Notice\_Period<=30 AND Candidate\_relocate\_actual='Yes' and Joining\_Bonus='Yes'

**Output:**



**Explanation:**

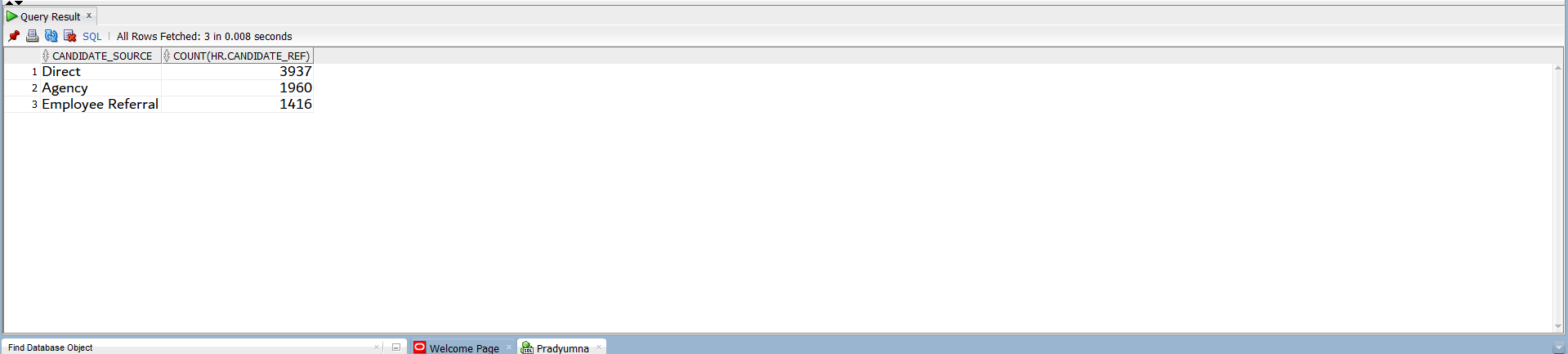
Displayed info of candidates who have joined and the ECTC is 25% hike from their CTC joining time is less than 30 days and candidates who are ready to re-locate and joining bonus is offered.

5. Generate the count of the candidates who are hired through what source and also who have joined and declined the offer.

select Candidate\_Source,count(HR.Candidate\_Ref) from HR\_HIRING\_DETAILS\_TRANSACTION HR LEFT join JOINING\_STATUS J ON HR.Candidate\_Ref = J.Candidate\_Ref

where status='Joined' group by Candidate\_Source

**Output:**



**Explanation:**

Displayed count of the candidates who are hired through what source

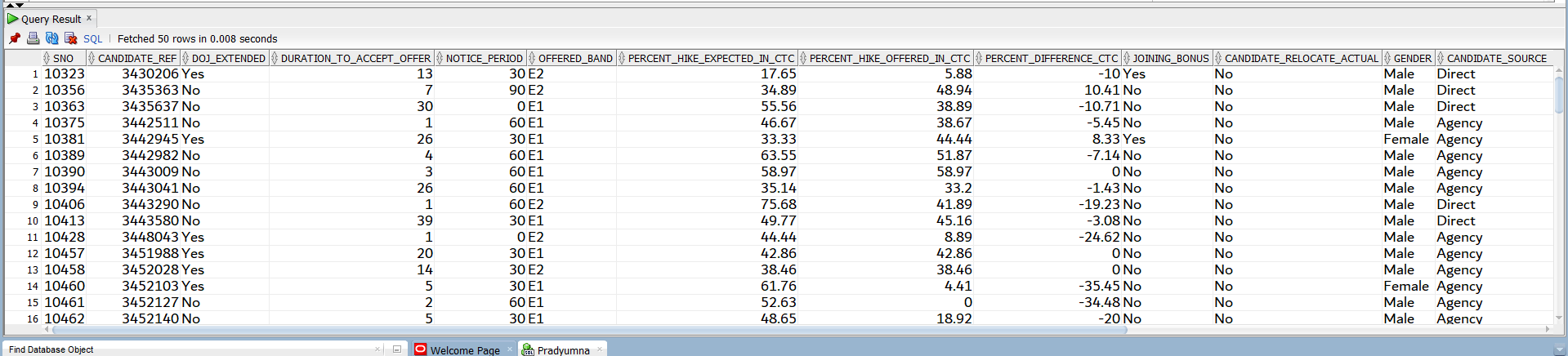
6. Generate the count of the candidates who are hired through what source and also who have declined the offer.

select \* from HR\_HIRING\_DETAILS\_TRANSACTION HR

LEFT join JOINING\_STATUS J ON HR.Candidate\_Ref = J.Candidate\_Ref

where status='Not Joined'

**Output:**



**Explanation:**

Displayed info of candidates whose joining status is not joined.