**PL/SQL ASSIGNMENT R12 GENERAL LEDGER**

**EMPLOYEE NAME: Malik Basha S**

**EMPLOYEE ID: 1439**

**ASSIGNMENT - Title: Customer and Credit Management Information Query**

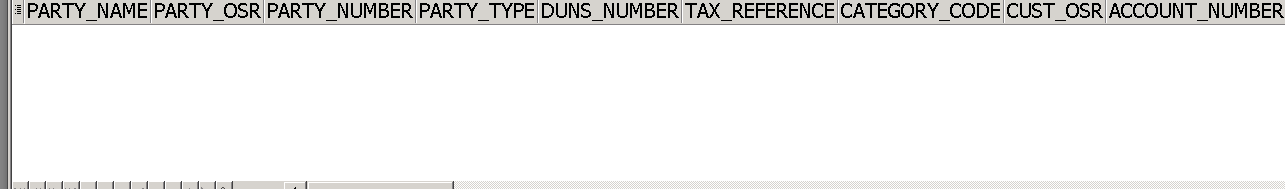
**Objective:**

Retrieve comprehensive information about customers and their credit management details.

**GIVEN QUERY:**

SELECT DISTINCT hzp.party\_name,  
 hzp.orig\_system\_reference party\_osr,  
 hzp.party\_number,  
 hzp.party\_type,  
 hzp.duns\_number,  
 hzp.tax\_reference,  
 hzp.category\_code,  
 hzc.orig\_system\_reference cust\_osr,  
 hzc.account\_number,  
 hzc.account\_name,  
 hou.NAME ou\_name,  
 (SELECT a.NAME  
 FROM ar.hz\_cust\_profile\_classes a  
 WHERE a.profile\_class\_id = hzcp.profile\_class\_id  
 ) profile\_class\_name,  
 (SELECT a.NAME  
 FROM ar.ar\_collectors a  
 WHERE a.collector\_id = hzcp.collector\_id  
 ) collector\_name,  
 (SELECT a.NAME  
 FROM ar.ar\_statement\_cycles a  
 WHERE statement\_cycle\_id = hzcp.statement\_cycle\_id  
 ) statement\_cycle\_name,  
 (SELECT a.NAME   
 FROM apps.ra\_terms a   
 WHERE a.term\_id = hzcp.standard\_terms) payment\_term\_name,  
 (SELECT a.NAME  
 FROM ar.ra\_grouping\_rules a  
 WHERE a.grouping\_rule\_id = hzcp.grouping\_rule\_id) grouping\_rules\_name,  
 (SELECT a.orig\_system\_reference  
 FROM hz\_cust\_site\_uses\_all a  
 WHERE a.site\_use\_id = hzcp.site\_use\_id) profile\_site\_use\_osr,  
 hzcp.credit\_checking,  
 hzcp.tolerance,  
 hzcp.credit\_hold,  
 hzcp.credit\_balance\_statements,  
 hzcp.send\_statements,  
 hzcp.jgzz\_attribute1 enable\_late\_charges,  
 hzcp.interest\_charges,  
 hzcp.jgzz\_attribute2 late\_charge\_calculation\_trx,  
 hzcp.jgzz\_attribute5 hold\_charged\_invoices\_flag,  
 hzcp.dunning\_letters,  
 hzcp.discount\_terms,  
 hzcp.interest\_period\_days,  
 hzcp.payment\_grace\_days,  
 hzcp.discount\_grace\_days,  
 hzcp.auto\_rec\_incl\_disputed\_flag,  
 hzcp.attribute\_category cust\_prof\_dff\_category,   
 hzcp.attribute2 cust\_prof\_dff\_attr2,  
 hzcpm.currency\_code,  
 hzcpm.trx\_credit\_limit,  
 hzcpm.overall\_credit\_limit,  
 hzcpm.min\_dunning\_amount,  
 hzcpm.min\_dunning\_invoice\_amount,  
 hzcpm.max\_interest\_charge,  
 hzcpm.min\_statement\_amount,  
 hzcpm.auto\_rec\_min\_receipt\_amount,  
 hzcpm.interest\_rate,  
 hzcpm.min\_fc\_balance\_amount,  
 hzcpm.min\_fc\_invoice\_amount,  
 (SELECT a.orig\_system\_reference  
 FROM hz\_cust\_site\_uses\_all a  
 WHERE a.site\_use\_id = hzcpm.site\_use\_id  
 ) profile\_amt\_site\_use\_osr  
 FROM ar.hz\_parties hzp,  
 ar.hz\_cust\_accounts hzc,  
 ar.hz\_cust\_acct\_sites\_All has,  
 ar.hz\_customer\_profiles hzcp,  
 ar.hz\_cust\_profile\_amts hzcpm,  
 apps.hr\_operating\_units hou  
 WHERE hzp.party\_id = hzc.party\_id  
 AND hzc.cust\_account\_id = hzcp.cust\_account\_id  
 and hzcp.cust\_account\_profile\_id = hzcpm.cust\_account\_profile\_id(+)  
 AND has.cust\_account\_id = hzc.cust\_Account\_id  
 AND HAS.ORG\_ID = HOU.ORGANIZATION\_ID  
 AND hou.organization\_id = 105 -- Operating unit id  
 -- Customer is active and created after cut off date  
 AND ((trunc(hzc.creation\_date) >'01-MAY-2012' and hzc.status = 'A')  
 -- AR invoices created after cut off date  
 or exists  
 (SELECT 1  
 FROM ar.ra\_customer\_trx\_all t  
 WHERE trunc(t.trx\_date)>'01-MAY-2012'  
 and t.bill\_to\_customer\_id = hzc.cust\_account\_id  
 and t.org\_id = hzc.org\_id  
 and hzc.status = 'A')  
 -- AR invoice Payments are in open status   
 or exists  
 (SELECT 1  
 FROM ar.ar\_payment\_schedules\_all apsa  
 WHERE apsa.CLASS IN ('INV', 'CM', 'DM','PMT')  
 AND apsa.status = 'OP'  
 AND apsa.org\_id = hzc.org\_id  
 AND apsa.customer\_id = hzc.cust\_account\_id  
 AND to\_number(apsa.acctd\_amount\_due\_remaining) <>  
 to\_number('0')  
 GROUP BY apsa.customer\_id  
 having sum(nvl(apsa.acctd\_amount\_due\_remaining,0))<>0));

**OUTPUT FOR THE GIVEN QUERY:**



**ERROR FINDING: -**

•  **Organization id mentioned in these table is not valid, so I replace another organization id.**

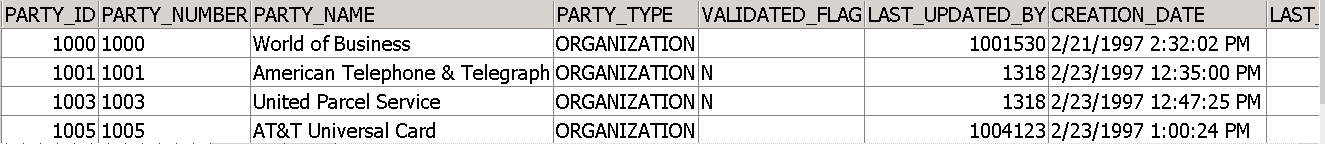
• **SOME ALIAS NAMES WERE NOT GIVEN CORRECTLY.** **error find it allies name can't mention**

**Reference:-**

**All are run Properly with Data**

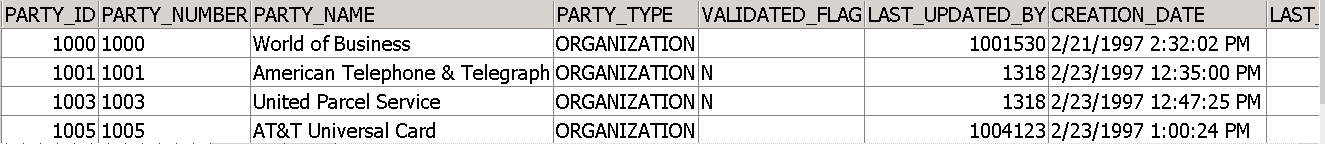
select \* from apps.HZ\_PARTIES;

This query is used to fetch the customer information of the hz\_parties table.



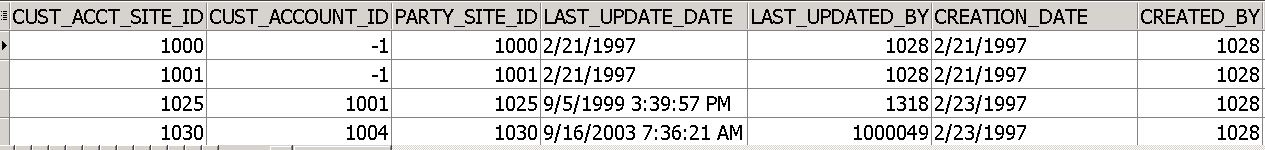
select \* from apps.HZ\_CUST\_ACCOUNTS;

This query is used to fetch the customer account information of the hz\_cust\_accounts table



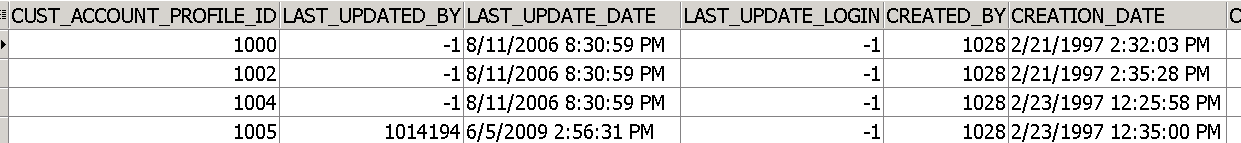
select \* from apps.HZ\_CUST\_ACCT\_SITES\_ALL;

This query is used to fetch the customer site details like location, address etc of hz\_cust\_acct\_site\_all table



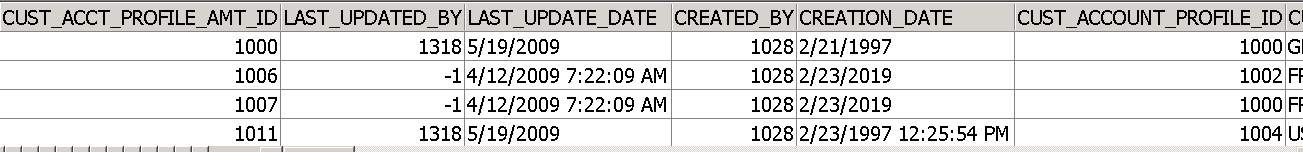
select \* from apps.HZ\_CUSTOMER\_PROFILES;

This query retrieves all columns (**\***) from the **HZ\_CUSTOMER\_PROFILES** table in the **APPS** schema. It is used to fetch information related to customer profiles.



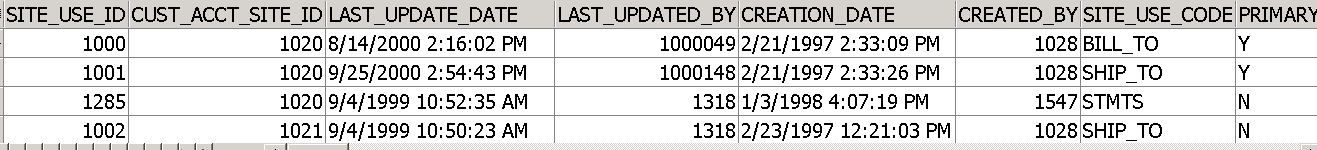
select \* from apps.HZ\_CUST\_PROFILE\_AMTS;

This query retrieves all columns (**\***) from the **HZ\_CUST\_PROFILE\_AMTS** table in the **APPS** schema. It is used to fetch customer profile amounts, indicating financial information associated with customer profiles.



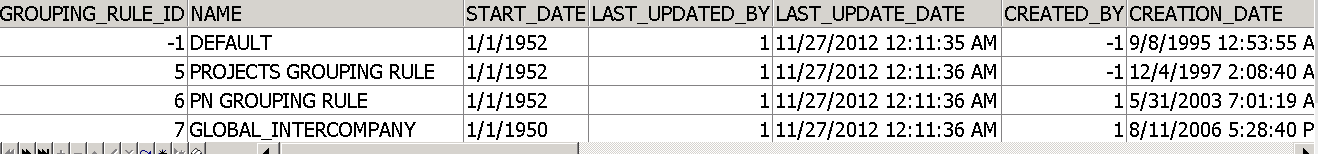
select \* from apps.HZ\_CUST\_SITE\_USES\_ALL;

This query retrieves all columns (**\***) from the **HZ\_CUST\_SITE\_USES\_ALL** table in the **APPS** schema. It is used to fetch information about customer site uses, including details related to site usage.



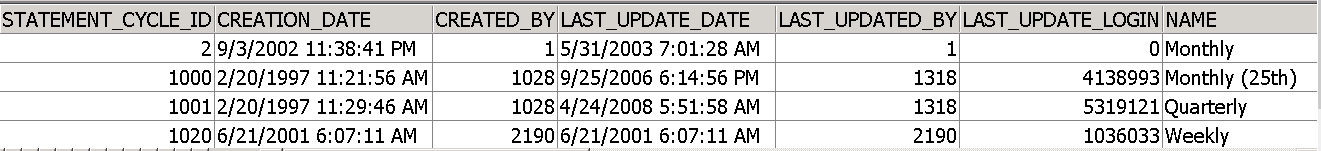
select \* from apps.RA\_GROUPING\_RULES;

This query retrieves all columns (**\***) from the **RA\_GROUPING\_RULES** table in the **APPS** schema. It is used to fetch information about grouping rules, which are typically associated with revenue recognition.



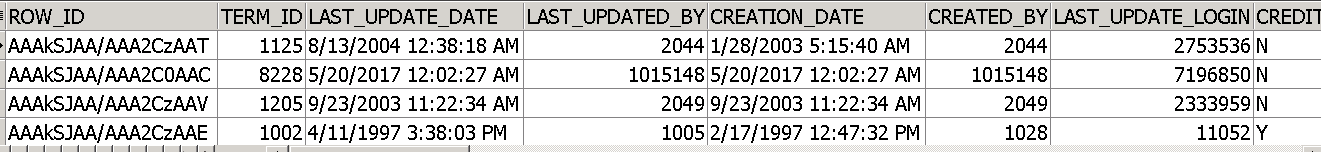
select \* from apps.AR\_STATEMENT\_CYCLES;

This query retrieves all columns (**\***) from the **AR\_STATEMENT\_CYCLES** table in the **APPS** schema. It is used to fetch information related to accounts receivable statement cycles.



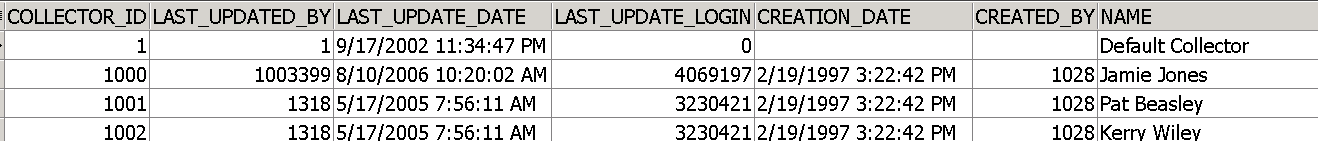
select \* from apps.RA\_TERMS;

This query retrieves all columns (**\***) from the **RA\_TERMS** table in the **APPS** schema. It is used to fetch information about terms, often related to revenue recognition.



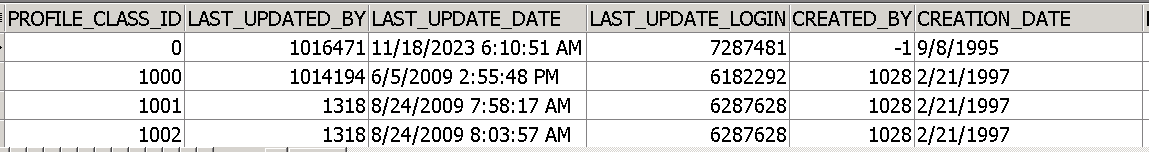
select \* from apps.AR\_COLLECTORS;

This query retrieves all columns (**\***) from the **AR\_COLLECTORS** table in the **APPS** schema. It is used to fetch information about collectors, who are responsible for managing and collecting outstanding accounts receivable.



select \* from apps.HZ\_CUST\_PROFILE\_CLASSES;

This query retrieves all columns (**\***) from the **HZ\_CUST\_PROFILE\_CLASSES** table in the **APPS** schema. It is used to fetch information about customer profile classes, which are typically used to categorize or classify customer profiles.



**CORRECTED QUERY:**

SELECT DISTINCT hzp.party\_name,

hzp.orig\_system\_reference party\_osr,

hzp.party\_number,

hzp.party\_type,

hzp.duns\_number,

hzp.tax\_reference,

hzp.category\_code,

hzc.orig\_system\_reference cust\_osr,

hzc.account\_number,

hzc.account\_name,

hou.NAME ou\_name,

(

SELECT a.NAME

FROM ar.hz\_cust\_profile\_classes a

WHERE a.profile\_class\_id = hzcp.profile\_class\_id

) profile\_class\_name,

(

SELECT a.NAME FROM ar.ar\_collectors a

WHERE a.collector\_id = hzcp.collector\_id

) collector\_name,

(

SELECT a.NAME

FROM ar.ar\_statement\_cycles a

WHERE **a.**statement\_cycle\_id = hzcp.statement\_cycle\_id --error find it allies name cant mention a.

--is not mentiontion before statement

) statement\_cycle\_name,

(

SELECT a.NAME

FROM apps.ra\_terms a

WHERE a.term\_id = hzcp.standard\_terms

) payment\_term\_name,

(

SELECT a.NAME

FROM ar.ra\_grouping\_rules a

WHERE a.grouping\_rule\_id = hzcp.grouping\_rule\_id

) grouping\_rules\_name,

(

SELECT a.orig\_system\_reference

FROM **ar.**hz\_cust\_site\_uses\_all a --error find the ar schema can't mention it is ar. before from

WHERE a.site\_use\_id = hzcp.site\_use\_id

) profile\_site\_use\_osr,

hzcp.credit\_checking,

hzcp.tolerance,

hzcp.credit\_hold,

hzcp.credit\_balance\_statements,

hzcp.send\_statements, hzcp.jgzz\_attribute1 enable\_late\_charges,

hzcp.interest\_charges,

hzcp.jgzz\_attribute2 late\_charge\_calculation\_trx,

hzcp.jgzz\_attribute5 hold\_charged\_invoices\_flag,

hzcp.dunning\_letters,

hzcp.discount\_terms,

hzcp.interest\_period\_days,

hzcp.payment\_grace\_days,

hzcp.discount\_grace\_days,

hzcp.auto\_rec\_incl\_disputed\_flag,

hzcp.attribute\_category cust\_prof\_dff\_category,

hzcp.attribute2 cust\_prof\_dff\_attr2,

hzcpm.currency\_code,

hzcpm.trx\_credit\_limit,

hzcpm.overall\_credit\_limit,

hzcpm.min\_dunning\_amount,

hzcpm.min\_dunning\_invoice\_amount,

hzcpm.max\_interest\_charge,

hzcpm.min\_statement\_amount,

hzcpm.auto\_rec\_min\_receipt\_amount,

hzcpm.interest\_rate,

hzcpm.min\_fc\_balance\_amount,

hzcpm.min\_fc\_invoice\_amount,

(

SELECT a.orig\_system\_reference

FROM ar.hz\_cust\_site\_uses\_all a -- same schema error

WHERE a.site\_use\_id = hzcpm.site\_use\_id

) profile\_amt\_site\_use\_osr

FROM ar.hz\_parties hzp,

ar.hz\_cust\_accounts hzc,

ar.hz\_cust\_acct\_sites\_All has,

ar.hz\_customer\_profiles hzcp,

ar.hz\_cust\_profile\_amts hzcpm,

apps.hr\_operating\_units hou--no data

WHERE

hzp.party\_id = hzc.party\_id

AND hzc.cust\_account\_id = hzcp.cust\_account\_id

and hzcp.cust\_account\_profile\_id = hzcpm.cust\_account\_profile\_id(+)

AND has.cust\_account\_id = hzc.cust\_Account\_id

AND HAS.ORG\_ID = HOU.ORGANIZATION\_ID

AND hou.organization\_id = 889-- Operating unit id company -**-105 organization id not here**

-- Customer is active and created after cut off date

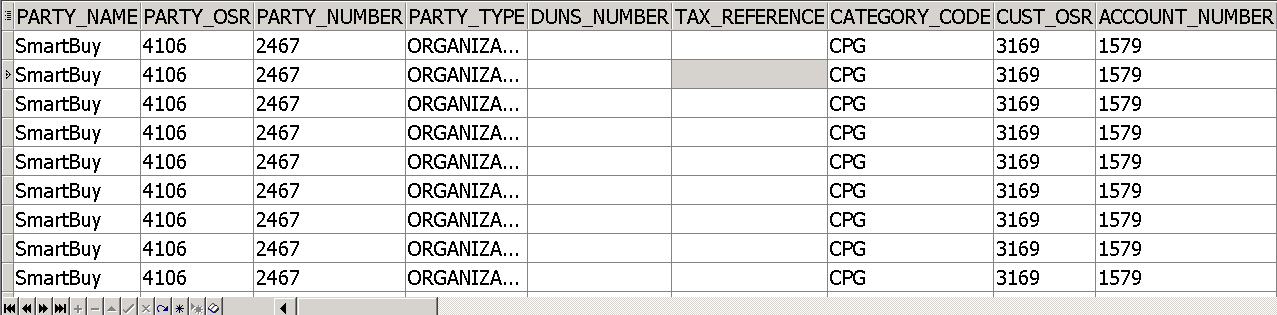
AND (trunc(hzc.creation\_date) >'01-MAY-2000' and hzc.status = 'A'); **--2011 date here**

**Explanation:**

This SQL query retrieves information related to customer and credit management from various tables.

* Columns selected include details about parties, customer accounts, operating units, and various attributes related to credit management.
* Subqueries are used to fetch additional information, such as collector names and profile class names.
* The query includes join conditions to link the necessary tables, and it filters data based on creation date, customer status, and operating unit.

**OUTPUT FOR THE CORRECTED QUERY:**



**CODE EXPLANATION:**

#### SELECT Clause:

* **Columns Selected:**
  + **hzp.party\_name**
  + **hzp.orig\_system\_reference** AS **party\_osr**
  + **hzp.party\_number**
  + **hzp.party\_type**
  + **hzp.duns\_number**
  + **hzp.tax\_reference**
  + **hzp.category\_code**
  + **hzc.orig\_system\_reference** AS **cust\_osr**
  + **hzc.account\_number**
  + **hzc.account\_name**
  + **hou.NAME** AS **ou\_name**
  + ...

#### FROM Clause:

* **Specifies the tables used in the query:**
  + **ar.hz\_parties hzp**
  + **ar.hz\_cust\_accounts hzc**
  + **ar.hz\_cust\_acct\_sites\_All has**
  + **ar.hz\_customer\_profiles hzcp**
  + **ar.hz\_cust\_profile\_amts hzcpm**
  + **apps.hr\_operating\_units hou**

#### WHERE Clause:

* **Conditions to filter the rows:**
  + Join conditions (**hzp.party\_id = hzc.party\_id**, etc.)
  + Date condition (**trunc(hzc.creation\_date) > '01-MAY-2000' AND hzc.status = 'A'**)
  + Operating unit condition (**hou.organization\_id = 889**)

#### **Conclusion:**

* This SQL query is designed to extract comprehensive customer and credit management information. It involves multiple tables and subqueries to retrieve additional details. The conditions in the **WHERE** clause filter the data based on specific criteria.