

EXPERIMENT N0-8

AIM: Write View and Triggers for the given statement of problem.

1.Create Trigger for inserting new members in member table.

The screenshot displays the Oracle Live SQL interface, which is a web-based environment for writing and executing SQL code. The browser window shows the URL `livesql.oracle.com/apex/f?p=590:1:11279730511899::NO:RP::`. The page title is "Oracle Live SQL - SQL Worksheet".

The "SQL Worksheet" section contains the following SQL code:

```
1 CREATE TRIGGER member_id_check
2 BEFORE INSERT
3 ON Members
4 FOR EACH ROW
5 BEGIN
6 IF inserting
7 THEN
8 IF :NEW.member_id NOT LIKE 'A%'
9 THEN
10 RAISE_APPLICATION_ERROR(-20101,'Invalid member id');
11 ROLLBACK;
12 END IF;
13 END IF;
14 END;
```

Below the code editor, a message states "Trigger created.".

The bottom section of the interface shows the execution results. The first line of code is:

```
1 INSERT INTO Members VALUES ('A11','rahul','ahendabad','rahul@gmail.com','AHFCRN011');
```

The execution results show two error messages:

```
ORA-20101: Invalid member id ORA-06512: at "SQL_ACHUJTAEGWGGENDHAGQUTUIG.MEMBER_ID_CHECK", line 6
ORA-06512: at "SYS.DBMS_SQL", line 1721
```

The interface also includes a footer with Oracle Corporation information and a Windows taskbar at the bottom.

Oracle Live SQL - SQL Worksheet

livesql.oracle.com/apex/?p=590:1:5682537404651:NO:RP:

Live SQL

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SQL Worksheet

Clear Find Actions Save Run

```
1 CREATE TRIGGER receipt_id_check
2 BEFORE INSERT
3 ON Members
4 FOR EACH ROW
5 BEGIN
6 IF inserting
7 THEN
8 IF :NEW.receipt_id NOT LIKE 'AHFCRNN%'
9 THEN
10 RAISE_APPLICATION_ERROR(-20101,'Invalid receipt id');
11 ROLLBACK;
12 END IF;
13 END IF;
14 END;
```

Trigger created.

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Oracle Live SQL - SQL Worksheet

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Live SQL

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SQL Worksheet

Clear Find Actions Save Run

```
1 INSERT INTO Members VALUES ('AH_11','rahu1','ahemdabad','rahu1@gmail.com','AH0001');
```

ORA-20101: Invalid receipt id ORA-06512: at "SQL_RCHMUTAE0VSGENIHSAQQTUUG.RECEIPT_ID_CHECK", line 6
ORA-06512: at "SYS.DBMS_SQL", line 1721

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2. Create view for showing all member details as name address with their receipt details.

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following code:

```
1 create view combine as
2 select Members.member_name, Members.member_address, Receipt.receipt_id, Receipt.amount, Receipt.start_day, Receipt.expiry_date, Receipt.payment_method
3 from Members, Receipt where Members.receipt_id=Receipt.receipt_id;
4
5 select * from combine;
6
```

Below the code, the message "View created." is displayed. The results of the query are shown in a table with the following data:

MEMBER_NAME	MEMBER_ADDRESS	RECEIPT_ID	AMOUNT	START_DAY	EXPIRY_DATE	PAYMENT_METHOD
Harsh	Mumbai	AHFCRN001	5000	09-SEP-20	09-SEP-23	online
Atharva	Vangani, Thane	AHFCRN002	5000	10-OCT-20	10-OCT-23	cash
Vishal	Ulhasnagar, Thane	AHFCRN003	7000	18-AUG-20	18-AUG-23	credit card
Varad	Dadar, Mumbai	AHFCRN004	3000	13-JAN-21	13-JAN-24	online
Gala	Dadar, Mumbai	AHFCRN005	3000	02-NOV-20	02-NOV-23	cash
Aryan	Kanjurmarg, Mumbai	AHFCRN006	4000	07-DEC-20	07-DEC-23	credit card
Clay	Bandra, Mumbai	AHFCRN007	4500	10-JUL-20	10-JUL-23	cash
Justin	Badlapur, Thane	AHFCRN008	8000	04-MAR-21	04-MAR-24	online
Hannah	Powai, Mumbai	AHFCRN009	7000	16-DEC-20	16-DEC-23	credit card
Ilav	Korla, Mumbai	AHFCRN010	8000	01-APR-21	01-APR-24	online

The footer of the interface includes the Oracle logo, "Integrated Cloud Applications & Platform Services", and copyright information: "© 2021 Oracle Corporation - Privacy - Terms of Use". It also mentions "Oracle Learning Library - Ask Tom - Dev Gym - Database Documentation - Follow on Twitter" and "Live SQL 21.2.1, running Oracle Database 19c Enterprise Edition - 19.6.0.0.0". A note at the bottom states "Built with ❤️ using Oracle APEX running on Oracle Cloud Infrastructure and Oracle Kubernetes Engine". The Windows taskbar at the bottom shows the time as 06:48 PM on 14-05-2021.