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Programme: B.Tech CSE (Spec. AI&ML) (Batch 5)

Course: Advanced Database Management Systems

LAB 10

Objective: To understand the concept of transaction, commit, rollback and checkpoint.

1. Create table info with attribute id, name, age, address, salary.

Answer.1.

```
CREATE TABLE INFO(
```

```
    employee_id varchar(10) PRIMARY KEY,
```

```
    employee_name VARCHAR(30),
```

```
    age INTEGER NOT NULL,
```

```
    address VARCHAR(30),
```

```
    salary DECIMAL(10, 2)
```

```
);
```

The screenshot displays the Oracle Live SQL web interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (highlighted), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a text editor with the following SQL code:

```
1 CREATE TABLE INFO(  
2     employee_id varchar(10) PRIMARY KEY,  
3     employee_name VARCHAR(30),  
4     age INTEGER NOT NULL,  
5     address VARCHAR(30),  
6     salary DECIMAL(10, 2)  
7 );
```

Below the editor, a message states 'Table created.' The top of the interface includes a 'Live SQL' header, a user profile 'thelazycrazywizard@gmail.com', and buttons for Feedback, Help, Clear, Find, Actions, Save, and Run. The footer contains Oracle branding, 'Integrated Cloud Applications & Platform Services', copyright information for 2020, and links to the Oracle Learning Library, Ask Tom, Dev Gym, and Database Documentation.

```
INSERT INTO INFO (employee_id, employee_name, age, address, salary)
VALUES ('0d2567fG', 'Ravi Kumar', 35, 'B14 Vihar Nagar, New Delhi', 34000.2);
```

```
INSERT INTO INFO (employee_id, employee_name, age, address, salary)
VALUES ('0kI90OpX', 'Kishan Ravi', 53, 'B401 New view housing, Mumbai', 65000.2);
```

```
INSERT INTO INFO (employee_id, employee_name, age, address, salary)
VALUES ('Lo00DrGH', 'Shubham Kulkarni', 38, 'B108 Vihar Nagar, Delhi', 43000);
```

```
INSERT INTO INFO (employee_id, employee_name, age, address, salary)
VALUES ('P00lMAjO', 'Aditya Rajvanshi', 35, 'B41 Vihar Nagar, Delhi', 98000.23);
```

The screenshot shows the 'Live SQL' web application interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a text editor with four SQL statements, each on a new line. Below the editor, the execution results are displayed, showing '1 row(s) inserted.' for each statement. The footer includes the Oracle logo, 'Integrated Cloud Applications & Platform Services', copyright information for 2020, and links to Oracle Learning Library, Ask Tom, Dev Gym, Database Doc, and Twitter. It also specifies the version as 'Live SQL 20.3.1, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0' and mentions it is 'Built with ♥ using Oracle APEX'.

```
1 INSERT INTO INFO (employee_id, employee_name, age, address, salary)
2 VALUES ('0d2567fG', 'Ravi Kumar', 35, 'B14 Vihar Nagar, New Delhi', 34000.2);
3
4 INSERT INTO INFO (employee_id, employee_name, age, address, salary)
5 VALUES ('0kI90OpX', 'Kishan Ravi', 53, 'B401 New view housing, Mumbai', 65000.2);
6
7 INSERT INTO INFO (employee_id, employee_name, age, address, salary)
8 VALUES ('Lo00DrGH', 'Shubham Kulkarni', 38, 'B108 Vihar Nagar, Delhi', 43000);
9
10 INSERT INTO INFO (employee_id, employee_name, age, address, salary)
11 VALUES ('P00lMAjO', 'Aditya Rajvanshi', 35, 'B41 Vihar Nagar, Delhi', 98000.23);
12
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

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2. Use commit statement to commit the records.

Answer.2.

COMMIT;

The screenshot displays the Oracle Live SQL web interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (highlighted in green), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a text editor with the SQL statement 'COMMIT;' on line 1. Above the editor are buttons for 'Clear', 'Find', 'Actions', 'Save', and a green 'Run' button. Below the editor, a message box states 'Statement processed.' The footer includes the Oracle logo, 'Integrated Cloud Applications & Platform Services', copyright information for 2020, and links to the Oracle Learning Library, Ask Tom, Dev Gym, and Database Documentation. It also specifies the version as 'Live SQL 20.3.1, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0' and mentions it is built with Oracle APEX.

3. Delete some records from info and to rollback and compare the results of delete and rollback.

Answer.3.

DELETE FROM INFO WHERE AGE = 35;

SELECT * FROM INFO;

≡

Live SQL

Feedback Help thelazycrazywizard@gmail.com

SQL Worksheet

Clear Find Actions Save Run

1 DELETE FROM INFO WHERE AGE = 35;

2 SELECT * FROM INFO;

2 row(s) deleted.

| EMPLOYEE_ID | EMPLOYEE_NAME | AGE | ADDRESS | SALARY |
|-------------|------------------|-----|-------------------------------|---------|
| 0kI900pX | Kishan Ravi | 53 | B401 New view housing, Mumbai | 65000.2 |
| Lo00DrGH | Shubham Kulkarni | 38 | B108 Vihar Nagar, Delhi | 43000 |

Download CSV

2 rows selected.

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ROLLBACK;

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Live SQL

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SQL Worksheet

Clear Find Actions Save Run

1 ROLLBACK;

Statement processed.

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