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API Test Result

1. Route: GET /api/databases

Explanation: Since I use `_db_tables` cache from `data_table_adaptor`, then at the first call, this route should return an empty list (no databases are accessed already).

GET DATABASES EMPTY

GET `http://localhost:5000/api/databases` Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (4) Test Results Status: 200 OK Time: 9ms Size: 147 B

Pretty Raw Preview Visualize BETA JSON

```
1 []
```

2. Route: GET /api/lahman2019clean/people/aaronto01

GET GET by PRIMARY KEYS 1 x + ... No Environment

GET `http://localhost:5000/api/lahman2019clean/people/willite01` Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (4) Test Results Status: 200 OK Time: 11ms Size: 729 B

Pretty Raw Preview Visualize BETA JSON

```
1 {
2   "playerID": "willite01",
3   "birthYear": "1918",
4   "birthMonth": "8",
5   "birthDay": "30",
6   "birthCountry": "USA",
7   "birthState": "CA",
8   "birthCity": "San Diego",
9   "deathYear": "2002",
10  "deathMonth": "7",
11  "deathDay": "5",
12  "deathCountry": "USA",
13  "deathState": "FL",
14  "deathCity": "Inverness",
15  "nameFirst": "Ted",
16  "nameLast": "Williams",
17  "nameGiven": "Theodore Samuel",
18  "weight": 205,
19  "height": "75",
20  "bats": "L",
21  "throws": "R",
22  "debut": "1939-04-20",
23  "finalGame": "1960-09-28",
24  "retroID": "willt103",
25  "bbrefID": "willite01",
26  "birthDate": "1918-08-30 00:00:00",
27  "deathDate": "2002-07-05 00:00:00"
28 }
```

3. Route: GET /api/lahman2019clean/batting/willite01_BOS_1960_1?fields=playerID,H,AB

GET by PRIMARY KEYS 2

GET http://localhost:5000/api/lahman2019clean/batting/willite01_BOS_1960_1?fields=playerID,H,AB Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE	DESCRIPTION
fields	playerID,H,AB	
Key	Value	Description

Body Cookies Headers (4) Test Results Status: 200 OK Time: 168ms Size: 195 B

Pretty Raw Preview Visualize BETA JSON

```
1 {
2   "playerID": "willite01",
3   "H": "98",
4   "AB": "310"
5 }
```

4. Route: GET /api/lahman2019clean/people/willite02

Explanation: When no entry is found, GET by primary key will return 404 NOT FOUND.

GET by PRIMARY KEYS 1

GET http://localhost:5000/api/lahman2019clean/people/willite02 Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (4) Test Results Status: 404 NOT FOUND Time: 11ms Size: 218 B

Pretty Raw Preview Visualize BETA JSON

```
1 {
2   "status_code": 404,
3   "err_msg": "No entry with such primary key"
4 }
```

5. Route: GET /api/databases

Explanation: Now, in our cache, we have lahman2019clean database because we have accessed it previously. So, the route should return a list with one element.

The screenshot shows a REST client interface with a tab titled "GET GET DATABASES". The method is "GET" and the URL is "http://localhost:5000/api/databases". The status is "200 OK", time is "5ms", and size is "165 B". The response body is displayed in JSON format, showing a single element in an array: "lahman2019clean".

KEY	VALUE	DESCRIPTION
Key	Value	Description

```
1 [
2   "lahman2019clean"
3 ]
```

6. Route: GET /api/databases/lahman2019clean

Explanation: We also have accessed People and Batting tables, so the route should return a list with two elements.

The screenshot shows a REST client interface with a tab titled "GET GET TABLES". The method is "GET" and the URL is "http://localhost:5000/api/databases/lahman2019clean". The status is "200 OK", time is "6ms", and size is "167 B". The response body is displayed in JSON format, showing two elements in an array: "batting" and "people".

KEY	VALUE	DESCRIPTION
Key	Value	Description

```
1 [
2   "batting",
3   "people"
4 ]
```

7. Route: GET /batting?teamID=BOS&yearID=1960&AB=1&H=0&fields=playerID,AB,H

The screenshot shows a REST client interface with a GET request to `http://localhost:5000/api/ahman2019clean/batting?teamID=BOS&yearID=1960&AB=1&H=0&fields=playerID,AB,H`. The request is successful, returning a 200 OK status. The response body is a JSON array of three player objects, each containing `playerID`, `AB`, and `H`.

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> teamID	BOS	
<input checked="" type="checkbox"/> yearID	1960	
<input checked="" type="checkbox"/> AB	1	
<input checked="" type="checkbox"/> H	0	
<input checked="" type="checkbox"/> fields	playerID,AB,H	
Key	Value	Description

```
1 {
2   {
3     "playerID": "chittne01",
4     "AB": "1",
5     "H": "0"
6   },
7   {
8     "playerID": "earlear01",
9     "AB": "1",
10    "H": "0"
11  },
12  {
13    "playerID": "worthal01",
14    "AB": "1",
15    "H": "0"
16  }
17 }
```

8. Route:

GET /batting?teamID=BOS&yearID=1960&AB=123&H=0&fields=playerID,AB,H

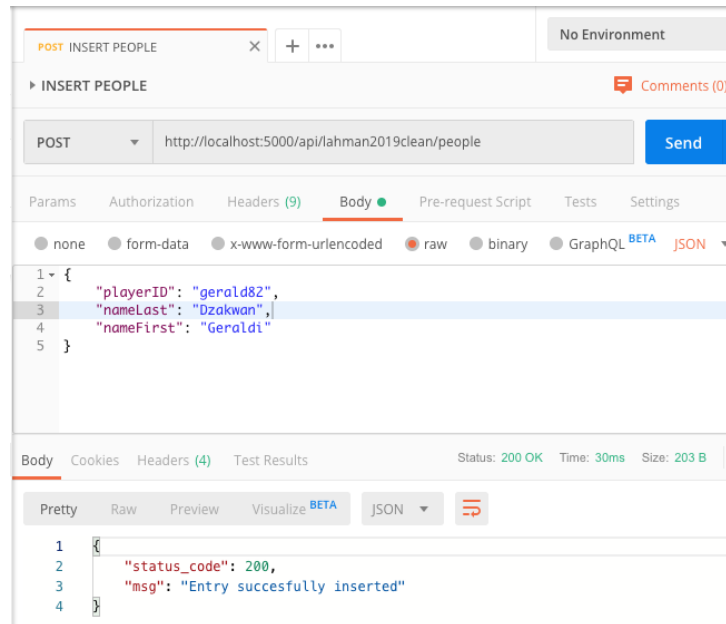
Explanation: When no entry is found, GET by template will return 404 NOT FOUND.

The screenshot shows a REST client interface with a GET request to `http://localhost:5000/api/ahman2019clean/batting?teamID=BOS&yearID=1960&AB=123&H=0&fields=playerID,AB,H`. The request returns a 404 NOT FOUND status. The response body is a JSON object indicating the error.

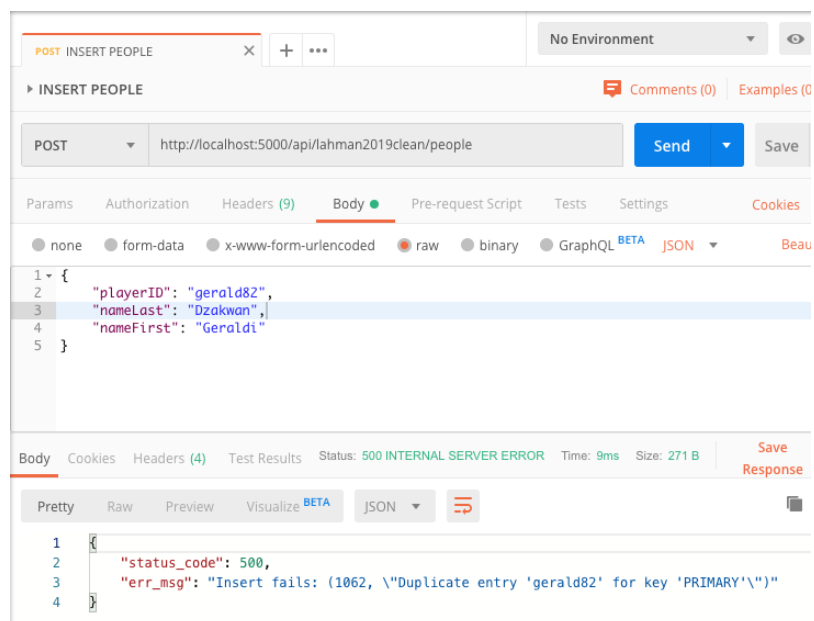
KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> teamID	BOS	
<input checked="" type="checkbox"/> yearID	1960	
<input checked="" type="checkbox"/> AB	123	
<input checked="" type="checkbox"/> H	0	
<input checked="" type="checkbox"/> fields	playerID,AB,H	
Key	Value	Description

```
1 {
2   "status_code": 404,
3   "err_msg": "No entry with such template"
4 }
```

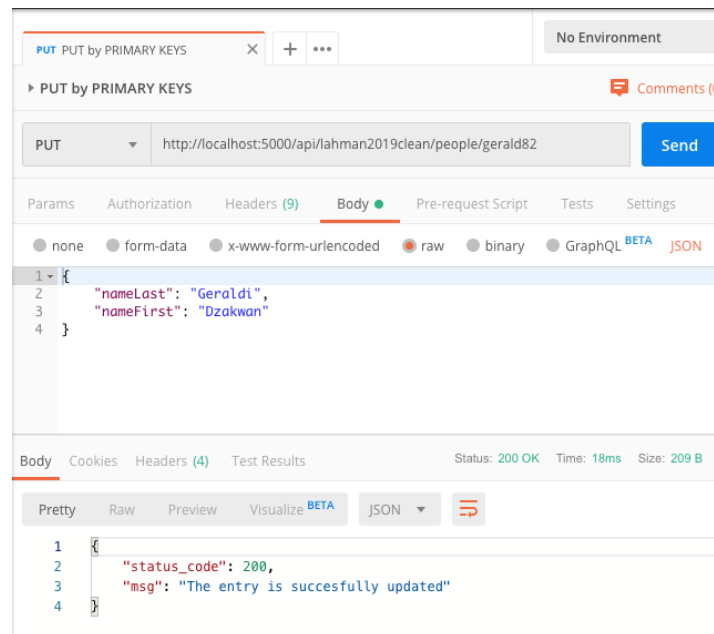
9. Route: POST /api/lahman2019clean/people
Body: { "playerID": "gerald82", "nameLast": "Dzakwan", "nameFirst": "Gerald" }



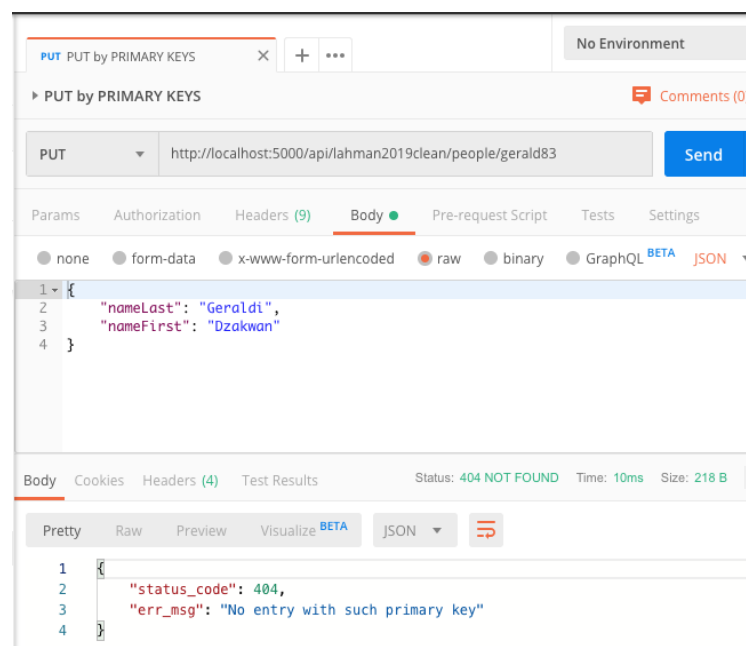
10. Route: POST /api/lahman2019clean/people
Body: { "playerID": "gerald82", "nameLast": "Dzakwan", "nameFirst": "Gerald" }
Explanation: When trying to insert a record in which the primary key already exists (we already insert the same record previously), 500 error code will be returned.



11. Route: PUT /api/lahman2019clean/people
Body: { "playerID": "gerald82", "nameLast": "Gerald", "nameFirst": "Dzakwan" }
Explanation: Switch the first and the last name of the previously inserted record at step 9



12. Route: PUT /api/lahman2019clean/people
Body: { "playerID": "gerald83", "nameLast": "Gerald", "nameFirst": "Dzakwan" }
Explanation: When no entry to update is found, the route will return 404 NOT FOUND.



13. Route: PUT /api/lahman2019clean/people

Body: { "playerID": "gerald82", "nameLast": "Gerald", "nameFirst": "Dzakwan" }

Explanation: When we want to update an entry but the new values don't change anything, the route will still return status code 200, but with a different message.

PUT PUT by PRIMARY KEYS

PUT http://localhost:5000/api/lahman2019clean/people/gerald82

Body

```
1 {
2   "nameLast": "Gerald",
3   "nameFirst": "Dzakwan"
4 }
```

Body Cookies Headers (4) Test Results Status: 200 OK Time: 11ms Size: 248 B Save R

Pretty Raw Preview Visualize BETA JSON

```
1 {
2   "status_code": 200,
3   "msg": "The entry is found but the new values given are the same as old values"
4 }
```

14. Route: DELETE /api/lahman2019clean/people/gerald82 ->

Response: Rows deleted: 1

DEL DELETE by PRIMARY KEYS

DELETE http://localhost:5000/api/lahman2019clean/people/gerald82

Body

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (4) Test Results Status: 200 OK Time: 42ms Size: 192 B

Pretty Raw Preview Visualize BETA JSON

```
1 {
2   "status_code": 200,
3   "msg": "Rows deleted: 1"
4 }
```

15. Route: DELETE /api/lahman2019clean/people/gerald82

Response: Rows deleted: 0

Explanation: The row doesn't exist anymore it is already deleted previously at step 14.

The screenshot shows a REST client interface with a tab titled "DEL DELETE by PRIMARY KEYS". The method is set to "DELETE" and the URL is "http://localhost:5000/api/lahman2019clean/people/gerald82". The "Send" button is visible. Below the URL bar, the "Body" tab is selected, showing a JSON response in "Pretty" format:

```
1 {
2   "status_code": 200,
3   "msg": "Rows deleted: 0"
4 }
```

The status bar at the bottom indicates "Status: 200 OK", "Time: 11ms", and "Size: 192 B".

16. Route: DELETE /api/lahman2019clean/people/aaronto01

Explanation: DELETE by primary key fails because there is a primary key reference constraint. Thus, the route will return 500 error code and the corresponding error message.

The screenshot shows a REST client interface with a tab titled "DEL DELETE by PRIMARY KEYS". The method is set to "DELETE" and the URL is "http://localhost:5000/api/lahman2019clean/people/aaronto01". The "Send" button is visible. Below the URL bar, the "Body" tab is selected, showing a JSON response in "Pretty" format:

```
1 {
2   "status_code": 500,
3   "err_msg": "Delete by primary key fails: (1451, 'Cannot delete or update a parent row:
4     a foreign key constraint fails (`lahman2019clean`.`appearances`, CONSTRAINT
      `a_to_p` FOREIGN KEY (`playerID`) REFERENCES `people` (`playerID`))'")"
```

The status bar at the bottom indicates "Status: 500 INTERNAL SERVER ERROR", "Time: 34ms", and "Size: 421 B".

17. Route:

GET /batting?teamID=BOS&yearID=1960&AB=123&H=0&fields=playerID,AB,C

Explanation: MySQL internal error, no column 'C' in Batting

GET INVALID REQUEST 1

GET http://localhost:5000/api/lahman2019clean/batting?teamID=BOS&yearID=1960&AB=123&H=0&fields=playerID,AB,C

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> teamID	BOS	
<input checked="" type="checkbox"/> yearID	1960	
<input checked="" type="checkbox"/> AB	123	
<input checked="" type="checkbox"/> H	0	
<input checked="" type="checkbox"/> fields	playerID,AB,C	

Body Cookies Headers (4) Test Results Status: 500 INTERNAL SERVER ERROR Time: 38ms Size: 272 B Save Response

Pretty Raw Preview Visualize BETA JSON

```
1 {
2   "status_code": 500,
3   "err_msg": "Fetch by template fails: (1054, 'Unknown column 'C' in 'field list')'"
4 }
```

18. Route:

GET /battings?teamID=BOS&yearID=1960&AB=123&H=0&fields=playerID,AB,H

Body: {"nameLast": "Dzakwan"}

Explanation: MySQL internal error, no table Battings in database

GET INVALID REQUEST 2

GET http://localhost:5000/api/lahman2019clean/battings?teamID=BOS&yearID=1960&AB=123&H=0&fields=playerID,AB,H

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> teamID	BOS	
<input checked="" type="checkbox"/> yearID	1960	
<input checked="" type="checkbox"/> AB	123	
<input checked="" type="checkbox"/> H	0	
<input checked="" type="checkbox"/> fields	playerID,AB,H	

Body Cookies Headers (4) Test Results Status: 500 INTERNAL SERVER ERROR Time: 51ms Size: 286 B Save Response

Pretty Raw Preview Visualize BETA JSON

```
1 {
2   "status_code": 500,
3   "err_msg": "No such database or table: (1146, 'Table 'lahman2019clean.battings'
4             doesn't exist')'"
5 }
```