# ASSESSMENT TASK: PORTFOLIO

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| **Task:** | **2** |
| **Task Title:** | **Portfolio SQL Part 2** |
| **Task Code:** | **ICTPRG431 AT2 POR SQL Pt 1** |

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| --- | --- | --- | --- |
| Assessment type (❌): | | | |
|  | Questioning (Oral/Written) |  | Portfolio |
|  | Practical Demonstration |  | Project |
|  | 3rd Party Report |  | Other – Please Specify in space below |
|  |  |  | … |

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| Requirements for Assessment The base requirements this assessment task include:   * Web server, database server, DBMS management application. (We recommend Laragon with phpMyAdmin, and MariaDB. Others are also valid) * Access to Office 365 & Microsoft Word * Access to a plain text editor. (We recommend VS Code or similar)   Use of some of these items may not occur in this part of the assessment task. |

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| Assessment Due This assessment is to be completed and submitted before:   * Session 10 23:59 (11:59PM) on the day of the scheduled lecture/collaborate session.   Refer to Blackboard for most accurate dates, which may alter due to unforeseen circumstances.  We will also endeavour to update these document(s) at the same time. |
| Table of contents for this assessment task is shown on the following page. |

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| Instructions Follow the steps listed in this assessment item.  Submission of the documentation, code, and associated items is at the end of each part of the portfolio.  It is advantageous to you to attempt to meet the deadline provided. |

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| Important If you are using a different configuration of tools and equipment for this assessment item, then assistance in this and subsequent parts of the portfolio to ensure the systems work correctly will be limited. |

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| Scenario You are currently an intern with a small company based in Perth, Western Australia, called **Incredibly Obvious Technology** (IOT).  Please go to Appendix XXX to Appendix YYY and read the full scenario and data that is provided. |

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| General Instructions You will be completing TWO documents for submission:   * This MS Word file where you will add copies of Screen Shots in the provided spaces * An SQL file containing just your SQL statements for each step (Template is provided)   We require TWO files so that the lecturers and assessors are able to verify your work more effectively. |

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| Word Answer Document You have downloaded this document, next rename this document to:  XXX-ICTPRG431-AT2-POR-Pt1.docx  Replacing the XXX with your initials.  For example, Adrian Gould would use AJG-ICTPRG431-AT2-POR-Pt1.docx for his copy of this document’s filename. |

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| SQL Answer File Download the template SQL file, XXX-ICTPRG432-AT2-POR-Pt1.sql.  Rename the XXX-ICTPRG432-AT2-POR-Pt1.sql file by replacing the XXX with your initials. Adrian Gould would name his: AG-ICTPRG402-AT2-POR-Pt1.txt.  To edit the file, use a text editor or IDE such as HeidiSQL, Notepad++, Sublime Text, VS Code or similar. You may also use PyCharm to edit this file. We recommend using HeidiSQL for this task.  Make sure you have the following at the top of the SQL file with the correct details (Names, ID, Initials) filled out.  -- --------------------------------------------------------------------  -- Filename: XXX-ICTPRG432-AT2-POR-PtN.sql  -- Author: GIVEN & FAMILY NAMES  -- Email: ID@tafe.wa.edu.au  -- --------------------------------------------------------------------  -- Purpose:  -- This file contains the SQL used to create and execute  -- the solutions for the assessment ICTPRG402 Portfolio  -- --------------------------------------------------------------------  -- Declaration:  -- By completing and submitting this assessment  -- via the Blackboard LMS or other methods, to my  -- lecturer, I am stating that:  -- \* The attached submission is completely own work  -- \* I have correctly indicated all sources of information  -- used in this work (if required)  -- \* I have kept a copy of this assessment (where practicable)  -- \* I understand a copy of my assessment will be kept by  -- NMTAFE for their records  -- \* I understand my assessment may be selected for use in  -- NMTAFE’s validation and audit process to ensure student  -- assessment is valid and meets requirements of the unit  -- of competency  -- -------------------------------------------------------------------- |

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| Answering Questions When a step includes a question, you must attempt to answer it.  All answers must be in complete sentences unless indicated.  The use of a sentence that leads into a list is appropriate if the question asks for a “list” or similar. |

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| Answer Length Limits When a question gives a SENTENCE range, this will be the minimum and maximum number of SENTENCES to use to answer the question(s).  If a step has more than one question, these maxima and minima are a total for all the questions in that specific step. |

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| Writing SQL Code When writing SQL code, you should NOT use any built-in features of phpMyAdmin or a similar SQL IDE, that let you create the code using a Graphical interface other than an SQL editor ‘page’.  For example, do not use the phpMyAdmin, MySQL Workbench, HeidiSQL or similar’s “Users” tab to create the user and database (see the picture below):  Graphical user interface  Description automatically generated  Instead, use the SQL or Query tab and enter the SQL to perform the action(s).  Below we show an example of using a SELECT query:  Graphical user interface, text, application  Description automatically generated  This is “Writing Code by Hand”.  You should expect to be asked questions that will be used to verify your ability to write and execute SQL correctly. These may or may not be questions in this assessment task. |

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| Sources of Information In industry, it is good practice to keep track of where information was obtained. This is especially true if it is a written document, or even code.  If you answer any questions using information from web sites, please include the site name and URL (Web site address) after the answer.  Likewise, include the title and author for books and magazine articles. For example:   * RS Electronics Ltd: <https://au.rs-online.com/> * Slack API Documentation, Users List Method: <https://api.slack.com/methods/users.list> |

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| Code Storage You MUST back-up the answer documents to your OneDrive storage provided by your TAFE Office365 account, and it is advised to also back up to a Thumb drive, Flash drive, or External storage device. |

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| *This space left intentionally blank.* |

# Assessment Task Procedure

The following pages give you instructions and space to place answers, screen capture and other required responses.

Ensure screenshots are cropped and resized once placed in the space provided to enable assessor to review your work. This includes, when possible, making the content legible in the screen capture.

| STEP | Task to perform |
| --- | --- |
| 00a | Getting Prepared Ensure you have completed these steps before attempting ***ANY*** questions in this document:   * Read the ***whole*** document from start to end at least ***ONCE*** without doing any work on the assessment. * Downloaded and renamed this document as required. * Downloaded and renamed the SQL template file as required. * Make sure you have followed the instructions on creating the answer document, as given in the General Instructions. * Make sure that you complete the title page of this document. * You have created and populated the following tables in the portfolio1 of the Assessment  1. Employee Table 2. Branches Table 3. Clients Table 4. Working With Table 5. Branch Supplier Table   Get Ready to perform some queries on these Tables. |
| 00b | General Queries The following steps ask a number of questions that must be answered using SQL Queries.  You will be required to write the SQL yourself and execute it via your DBMS Management Application.  You will also be required to copy your SQL to the answer document and SQL file, plus take a screen shot of the results of your SQL and add to the answer document.  Make sure you crop the results so that no extra content other than the data is shown.  For example: SELECT \* FROM staff\_members;  Table  Description automatically generated |
|  | *This space left intentionally blank.* |
| 01 | Query 1: Write & run a SQL query to find the names of all the employees. |
| A01 | Screenshot of the results of Query 1 Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 02 | Write & run a SQL query to find all the clients. |
| A02 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 03 | Query 3: Write & run a SQL query to find all employees ordered by salary. |
| A03 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 04 | Query 4: Write & run a SQL query to find all employees order by gender. |
| A04 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 05 | Query 5: Write & run a SQL query to find all employees order by family name. |
| A05 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 06 | Query 6: Write & run a SQL query to find first 5 employees in the table. |
| A06 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 07 | Write & run a SQL query to find employees whose name starts with a letter ‘A’. |
| A07 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 08 | Query 8: Write & run a SQL query to sort all the employee records in a descending order based on salary. |
| A08 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
|  | Where Queries Create and execute the SQL to answer the following questions. Make sure you copy the SQL into your answer document and your text file, as well as take a screenshot of the results.  *This space left intentionally blank.* |
| 09 | Query 9: Write & run a SQL query to find all male employees. |
| A09 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 10 | Write & run a SQL query to find all employees at the Scranton Branch (branch 2). |
| A10 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 11 | Write & run a SQL query to find all employee's IDs and names who were born after 1969. |
| A11 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 12 | Write & run a SQL query to find all female employees at Scranton Branch (Branch 2). |
| A12 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 13 | Write & run a SQL query to find all female employees born after 1969 or who has salary greater than 80000. |
| A13 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 14 | Write & run a SQL query to find all employees born between 1970 and 1975. |
| A14 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 15 | Write & run a SQL query to find all the employees named Jim, Michael, Johnny or David. |
| A15 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 16 | Write & run a SQL query to find the name of a client who has got the word ‘LLC’ in his name. |
| A16 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 17 | Write & run a SQL query to find any branch supplier with label in their names. |
| A17 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 18 | Write & run a SQL query to find any employee born on the 5th day of the month. |
| A18 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| 19 | Query 19: Write & run a SQL query to find any clients who has got the word ‘Law’ in their name. |
| A19 | Screenshot of the above query. Make a screenshot of the commands and any output generated and paste below.  Make sure the content is readable, by cropping the image as needed. |
| END | Submission of Portfolio Work To submit the portfolio, do the following:   * Save the document with your answers as a MS Word file (.docx). * Open Blackboard, and locate the ICTPRG402 Portfolio assessment * Open the assessment: * Upload:   + Your word-processed answer document,   + Your SQL as a text (.txt) file * Click submit.   Whilst there is no need to use any other word processing software as you have access to Office 365 for free as a student, in the event that you use Apple Pages, or Open Office, we will then require you to upload the original file AND a PDF version. |

End of Assessment Task

**Assessment Feedback**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| I testify that:   1. The attached submission is my own work 2. All sources of information used within that attached work have been cited 3. I have kept a copy of this assignment 4. I understand that my assessment may be selected for use in the College's moderation and audit processes, to ensure validity, reliability, flexibility and fairness in student assessment. | | | | | |
| **Criteria –**  ICTPRG431 E2, E3, E4-4, KE, PE  ICTPRG432 E1-4, KE, PE | | **Comments** | | | |
| **Assessment: Portfolio Tasks 2** |  |  | | | |
| * Includes simple queries |  |  | | | |
| * Includes where queries |  |  | | | |
| * Includes where queries with Logical and arithmetic operators |  |  | | | |
| * Includes queries with Date/time |  |  | | | |
| **Comments:** | | | | | |
| **Unit/Module Result:**  Not Yet Demonstrated  Demonstrated | | | |  | |
| Assessor’s Signature: | | | Date: | |

Appendices with additional information follow

# Appendix A: Scenario

You are currently an intern with a small company based in Perth, Western Australia, called **Incredibly Obvious Technologies** (IOT).

As part of your internship with the company, they have set a task to help them ascertain your skills and capabilities.

They have a scenario that requires database and querying skills, and this is outlined in the remainder of this document.

## General Information

Incredibly Obvious Technologies are a multifaceted company who provide software development, 3D design, and printing, and other skills to a wide variety of customers.

The scenario you are to work upon is a corporate database with details of employees, clients, branches, suppliers and which clients work with which employees.

# Appendix B: Database Standards

IoT have strict naming conventions for their databases and tables.

These conventions MUST be adhered to.

## Database Naming

All databases are named in the form of database\_name.

For this scenario, the database will be named xxx\_company, or xxx\_ictprg432, where xxx are the intern’s initials.

## Database User Naming

All database users are named in the form of database\_name.

For this scenario, the database management system’s database specific user name will be named xxx\_company, or xxx\_ictprg432, where xxx are the intern’s initials.

## Database Host

The database’s host computer will be the PC the intern is using and thus will be accessed via the “localhost” server name during the period of development.

## Database Passwords

All database passwords are documented so that supervisors and the full-time developers may verify work and collaborate when appropriate.

The use of passwords is also to protect against other interns from plagiarising your work if they are completing the same task, now or during future internships.

During development all database user passwords must conform with the following criteria:

|  |  |
| --- | --- |
| Minimum Length | 6 Characters |
| Maximum Length | 16 Characters |
| Characters must be from the following | ABCDEFGHIZJKLMNOPQRSTUVWXYZ abcdefghizjklmnopqrstuvwxyz 0123456789 !@#$%^&()\_+-={}[]<>,. |

# Appendix C: Employees

Sample data, table design and SQL to create the table and insert the data.

## Sample Data

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Table** | Employee | | | | | | |
|  |  |  |  |  |  |  |  |
| **Employee ID** | **Given Name** | **Family Name** | **Date of Birth** | **Gender Identity** | **Gross Salary** | **Supervisor ID** | **Branch ID** |
| 100 | David | Wallace | 17/11/1967 | M | 25000 | Null | 1 |
| 101 | Jan | Levinson | 11/05/1967 | F | 110000 | 100 | 1 |
| 102 | Michael | Scott | 15/03/1964 | M | 75000 | 100 | 2 |
| 103 | Angela | Martin | 25/06/1971 | F | 63000 | 102 | 2 |
| 104 | Kelly | Kapoor | 05/02/1980 | F | 55000 | 102 | 2 |
| 105 | Stanley | Hudson | 19/02/1958 | M | 69000 | 102 | 2 |
| 106 | Josh | Porter | 05/09/1969 | M | 78000 | 100 | 3 |
| 107 | Andy | Bernard | 22/07/1973 | M | 65000 | 106 | 3 |
| 108 | Jen | Halpert | 01/10/1978 | F | 71000 | 106 | 3 |

## Sample Table Design

|  |  |
| --- | --- |
| Table: | Employees |
| Table Name | employees |

| Field | Type | Size | Options | Notes |
| --- | --- | --- | --- | --- |
| Id | Big Integer |  | Auto Increment  Unsigned  Primary Key |  |
| Given Name | Var Char | 64 | Nullable | May be empty for people with ONE name only |
| Family Name | Var Char | 64 | Not Null | Required |
| Date of Birth | Date |  | Not Null | Date format: YYYY-MM—DD  Default 1900-01-01 |
| Gender Identity | Character | 1 | Nullable |  |
| Gross Salary | Big Integer |  | Default 0 | Default to 0 |
| Supervisor ID | Big integer |  | Nullable | Has a default of 0 |
| Branch ID | Big Integer |  | Nullable | Default 0 |
| Created At | Timestamp |  | Not Null | Default 2022-07-01 |
| Updated At | Timestamp |  |  | Nullable  On update current timestamp |

## Sample SQL Create Command

CREATE TABLE `employees` (

`id` bigint UNSIGNED NOT NULL AUTO\_INCREMENT,

`given\_name` varchar(64),

`family\_name` varchar(64) NOT NULL,

`date\_of\_birth` date DEFAULT '1970-01-01',

`gender\_identity` char(1),

`gross\_salary` int DEFAULT '0',

`supervisor\_id` bigint DEFAULT '0',

`branch\_id` bigint DEFAULT '0',

`created\_at` timestamp DEFAULT '2022-07-01',

`updated\_at` timestamp ON UPDATE CURRENT\_TIMESTAMP,

PRIMARY KEY (id)

);

## Sample SQL Seeding Commands

INSERT INTO `employees`

( `date\_of\_birth`, `id`, `family\_name`, `branch\_id`, `supervisor\_id`, `given\_name`, `gross\_salary`, `gender\_identity` )

VALUES

( '1967-05-11', 101, 'Levinson', 1, 100, 'Jan', 110000, 'F' );

INSERT INTO `employees`

(`date\_of\_birth`, `id`, `family\_name`, `branch\_id`, `supervisor\_id`, `given\_name`, `gross\_salary`, `gender\_identity`)

VALUES

('1964-03-15', 102, 'Scott', 2, 100, 'Michael', 75000, 'O'),

('1971-06-25', 103, 'Martin', 2, 102, 'Angela', 63000, 'F'),

('1980-02-05', 104, 'Kapoor', 2, 102, 'Kelly', 55000, 'O'),

('1958-02-19', 105, 'Hudson', 2, 102, 'Stanley', 69000, 'M'),

('1969-09-05', 106, 'Porter', 3, 100, 'Josh', 78000, 'M'),

('1973-07-22', 107, 'Bernard', 3, 106, 'Andy', 65000, 'M'),

('1978-10-01', 108, 'Halpert', 3, 106, 'Jen', 71000, 'F');

# Appendix D: Branches

Sample data, table design and SQL to create the table and insert the data.

## Sample Data

|  |  |  |  |
| --- | --- | --- | --- |
| **Table** | Branches | | |
|  |  |  |  |
| **Branch ID** | **Branch Name** | **Manager ID** | **Manager Start Date** |
| 1 | Corporate | 100 | 09/02/2006 |
| 2 | Scranton | 102 | 06/04/1992 |
| 3 | Stamford | 106 | 13/02/1998 |

## Sample Table Design

|  |  |
| --- | --- |
| Table: | Branches |
| Table Name | branches |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Type | Size | Options | Notes |
| Id | Big Integer |  | Auto Increment  Unsigned  Primary Key |  |
| Branch Name | Var Char | 64 | Not Null  Default ‘ERROR’ | Unique |
| Manager ID | Big integer |  | Default 0  Unsigned |  |
| Manager Start Date | Date |  | Not Null  Default 1900-01-01 | Date format: YYYY-MM-DD |
| Created At | Timestamp |  | Not Null  Now |  |
| Updated At | Timestamp |  | Nullable  On update current timestamp |  |

## Sample SQL Create Command

CREATE TABLE `employees` (

`id` bigint UNSIGNED NOT NULL AUTO\_INCREMENT,

`given\_name` varchar(64),

`family\_name` varchar(64) NOT NULL,

`date\_of\_birth` date DEFAULT '1970-01-01',

`gender\_identity` char(1),

`gross\_salary` int DEFAULT '0',

`supervisor\_id` bigint DEFAULT '0',

`branch\_id` bigint DEFAULT '0',

`created\_at` timestamp DEFAULT '2022-07-01',

`updated\_at` timestamp ON UPDATE CURRENT\_TIMESTAMP,

PRIMARY KEY (id)

);

## Sample SQL Insert Commands

INSERT INTO `employees`

( `date\_of\_birth`, `id`, `family\_name`, `branch\_id`, `supervisor\_id`, `given\_name`, `gross\_salary`, `gender\_identity` )

VALUES

( '1967-05-11', 101, 'Levinson', 1, 100, 'Jan', 110000, 'F' );

INSERT INTO `employees`

(`date\_of\_birth`, `id`, `family\_name`, `branch\_id`, `supervisor\_id`, `given\_name`, `gross\_salary`, `gender\_identity`)

VALUES

('1964-03-15', 102, 'Scott', 2, 100, 'Michael', 75000, 'O'),

('1971-06-25', 103, 'Martin', 2, 102, 'Angela', 63000, 'F'),

('1980-02-05', 104, 'Kapoor', 2, 102, 'Kelly', 55000, 'O'),

('1958-02-19', 105, 'Hudson', 2, 102, 'Stanley', 69000, 'M'),

('1969-09-05', 106, 'Porter', 3, 100, 'Josh', 78000, 'M'),

('1973-07-22', 107, 'Bernard', 3, 106, 'Andy', 65000, 'M'),

('1978-10-01', 108, 'Halpert', 3, 106, 'Jen', 71000, 'F');

# Appendix E: Clients Table

Sample data, table design and SQL to create the table and insert the data.

## Sample Data

|  |  |  |
| --- | --- | --- |
| Table | Clients | |
|  |  |  |
| **Client ID** | **Client Name** | **Branch ID** |
| 400 | Dunmore Hoghschool | 2 |
| 401 | Lackawana Country | 2 |
| 402 | FedEx | 3 |
| 403 | John Daly Law, LLC | 3 |
| 404 | Scranton Whitepages | 2 |
| 405 | Times Newspaper | 3 |
| 406 | FedEx | 2 |

## Sample Table Design

|  |  |
| --- | --- |
| Table: | Staff Members |
| Table Name | staff\_members |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Type | Size | Options | Notes |
| Id | Big Integer |  | AI, PK | Primary key |
| Name | Varchar | 32 | NN | Not null |
| Pay Rate | Decimal | 6,2 | Default 0.00 | Has a default of 0.00 |
|  |  |  |  |  |

## Sample SQL Create Command

CREATE TABLE `employees` (

`id` bigint UNSIGNED NOT NULL AUTO\_INCREMENT,

`given\_name` varchar(64),

`family\_name` varchar(64) NOT NULL,

`date\_of\_birth` date DEFAULT '1970-01-01',

`gender\_identity` char(1),

`gross\_salary` int DEFAULT '0',

`supervisor\_id` bigint DEFAULT '0',

`branch\_id` bigint DEFAULT '0',

`created\_at` timestamp DEFAULT '2022-07-01',

`updated\_at` timestamp ON UPDATE CURRENT\_TIMESTAMP,

PRIMARY KEY (id)

);

## Sample SQL Insert Commands

INSERT INTO `employees`

( `date\_of\_birth`, `id`, `family\_name`, `branch\_id`, `supervisor\_id`, `given\_name`, `gross\_salary`, `gender\_identity` )

VALUES

( '1967-05-11', 101, 'Levinson', 1, 100, 'Jan', 110000, 'F' );

INSERT INTO `employees`

(`date\_of\_birth`, `id`, `family\_name`, `branch\_id`, `supervisor\_id`, `given\_name`, `gross\_salary`, `gender\_identity`)

VALUES

('1964-03-15', 102, 'Scott', 2, 100, 'Michael', 75000, 'O'),

('1971-06-25', 103, 'Martin', 2, 102, 'Angela', 63000, 'F'),

('1980-02-05', 104, 'Kapoor', 2, 102, 'Kelly', 55000, 'O'),

('1958-02-19', 105, 'Hudson', 2, 102, 'Stanley', 69000, 'M'),

('1969-09-05', 106, 'Porter', 3, 100, 'Josh', 78000, 'M'),

('1973-07-22', 107, 'Bernard', 3, 106, 'Andy', 65000, 'M'),

('1978-10-01', 108, 'Halpert', 3, 106, 'Jen', 71000, 'F');

# Appendix F: Working With Table

Sample data, table design and SQL to create the table and insert the data.

## Sample Data

|  |  |  |
| --- | --- | --- |
| Table | Working With | |
|  |  |  |
| **Employee ID** | **Client ID** | **Total Sales** |
| 105 | 400 | 55000 |
| 102 | 401 | 267000 |
| 108 | 402 | 22500 |
| 107 | 403 | 5000 |
| 108 | 403 | 12000 |
| 105 | 404 | 33000 |
| 107 | 405 | 26000 |
| 102 | 406 | 15000 |
| 105 | 406 | 130000 |

## Sample Table Design

|  |  |
| --- | --- |
| Table: | Staff Members |
| Table Name | staff\_members |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Type | Size | Options | Notes |
| Id | Big Integer |  | AI, PK | Primary key |
| Name | Varchar | 32 | NN | Not null |
| Pay Rate | Decimal | 6,2 | Default 0.00 | Has a default of 0.00 |
|  |  |  |  |  |

## Sample SQL Create Command

## Sample SQL Insert Commands

INSERT INTO `employees`

( `date\_of\_birth`, `id`, `family\_name`, `branch\_id`, `supervisor\_id`, `given\_name`, `gross\_salary`, `gender\_identity` )

VALUES

( '1967-05-11', 101, 'Levinson', 1, 100, 'Jan', 110000, 'F' );

INSERT INTO `employees`

(`date\_of\_birth`, `id`, `family\_name`, `branch\_id`, `supervisor\_id`, `given\_name`, `gross\_salary`, `gender\_identity`)

VALUES

('1964-03-15', 102, 'Scott', 2, 100, 'Michael', 75000, 'O'),

('1971-06-25', 103, 'Martin', 2, 102, 'Angela', 63000, 'F'),

('1980-02-05', 104, 'Kapoor', 2, 102, 'Kelly', 55000, 'O'),

('1958-02-19', 105, 'Hudson', 2, 102, 'Stanley', 69000, 'M'),

('1969-09-05', 106, 'Porter', 3, 100, 'Josh', 78000, 'M'),

('1973-07-22', 107, 'Bernard', 3, 106, 'Andy', 65000, 'M'),

('1978-10-01', 108, 'Halpert', 3, 106, 'Jen', 71000, 'F');

# Appendix G: Branch Suppliers Table

Sample data only.

## Sample Data

|  |  |  |
| --- | --- | --- |
| **Table** | Branch Supplier | |
|  |  |  |
| **Branch ID** | **Supplier Name** | **Product Supplied** |
| 2 | Hammer Mill | Paper |
| 2 | Uni-Ball | Writing Instruments |
| 3 | Patriot Paper | Paper |
| 2 | J. T. Forms & Labels | Custom Forms |
| 3 | Uni-Ball | Writing Instruments |
| 3 | Hammer Mill | Paper |
| 3 | Stamford Labels | Custom Forms |

# Appendix Z: Example SQL Commands

The following are some sample SQL commands that may or may not be of use in your assessment task.

These commands are not guaranteed to provide any solutions, but they may provide hints to assist you.

CREATE DATABASE test\_dummy;

USE test\_dummy;

SHOW DATABASES;

CREATE USER 'test\_dummy\_user'@'localhost' IDENTIFIED BY 'Password1';

GRANT USAGE ON \*.\* TO 'test\_dummy\_user'@'localhost';

GRANT EXECUTE, SELECT, SHOW VIEW, ALTER, ALTER ROUTINE, CREATE, CREATE ROUTINE, CREATE TEMPORARY TABLES, CREATE VIEW, DELETE, DROP, EVENT, INDEX, INSERT, REFERENCES, TRIGGER, UPDATE, LOCK TABLES ON `test\\_dummy`.\* TO 'test\_dummy\_user'@'localhost' WITH GRANT OPTION;

GRANT ALL ON `test\\_dummy`.\* TO 'test\_dummy\_user'@'localhost' WITH GRANT OPTION;

FLUSH PRIVILEGES;

DROP DATABASE test\_dummy;

SELECT \* FROM products WHERE product\_name like “%paper%”;

CREATE TABLE dummy\_products(id BIGINT UNSIGNED AUTO\_INCREMENT, name STRING(192) NOT NULL DEFAULT “ERROR”, PRIMARY KEY(id));